

**PRODUCT SPECIFICATIONS**

Bulletin No. KGA/KGB-024-090 (3/2016)



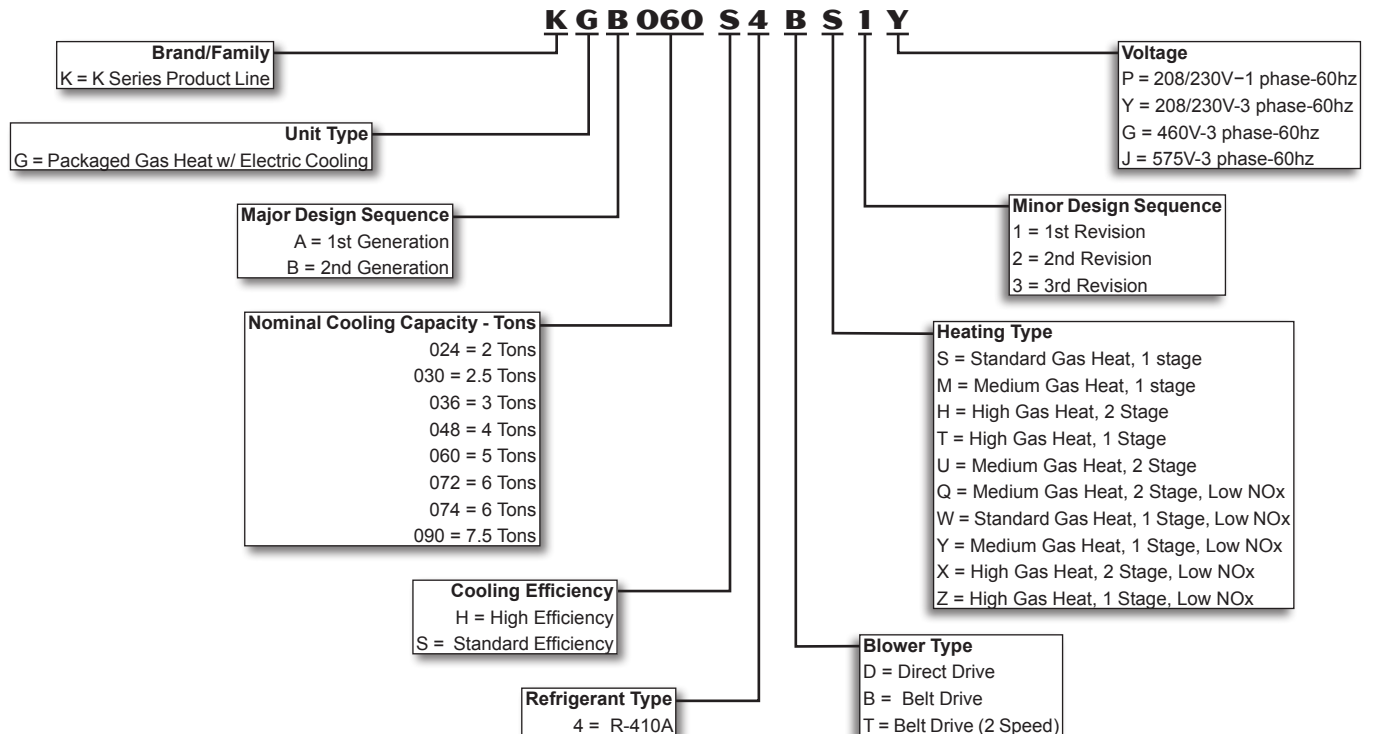
**ASHRAE 90.1  
COMPLIANT**

**2 to 7.5 Tons**

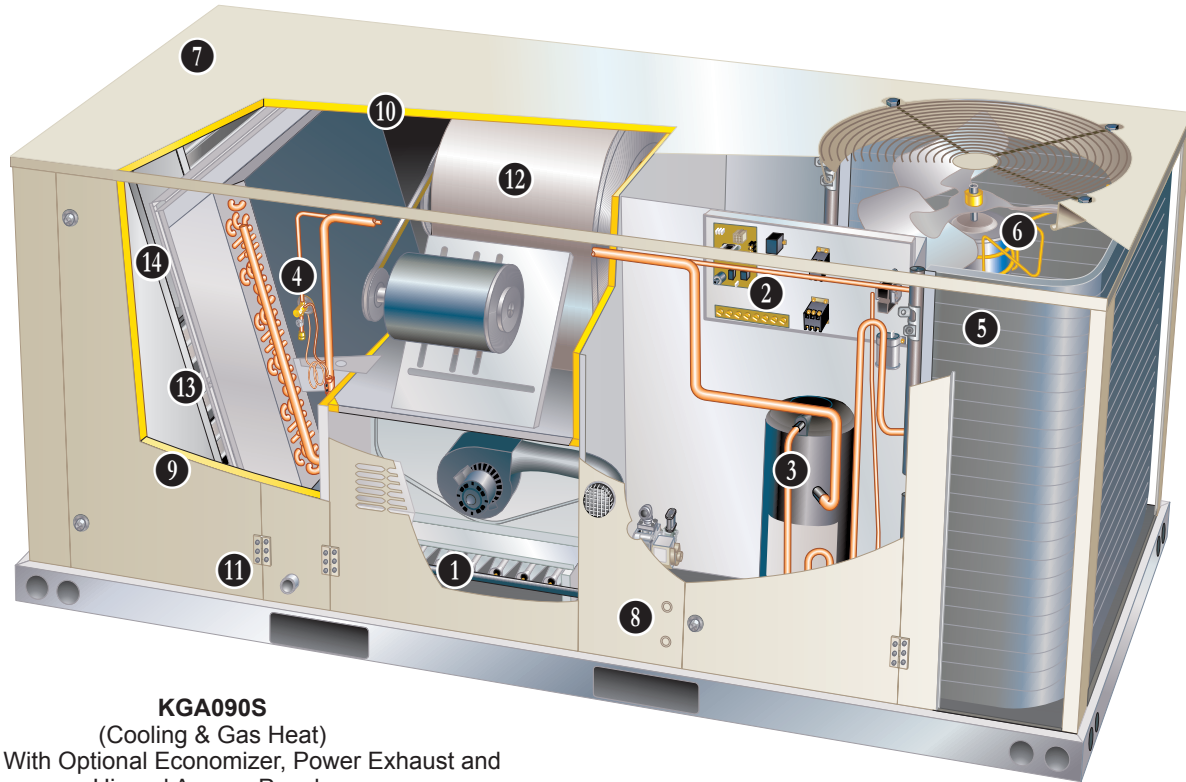
**Net Cooling Capacity – 24,200 to 90,000 Btuh**

**Gas Input Heat Capacity – 65,000 to 150,000 Btuh**

**MODEL NUMBER IDENTIFICATION**



## FEATURES AND BENEFITS



**KGA090S**  
(Cooling & Gas Heat)  
Shown With Optional Economizer, Power Exhaust and  
Hinged Access Panels

K Series rooftop units from Allied are the new standard for reliable, efficient rooftop units built for long-lasting performance that can significantly improve indoor environments. K Series rooftop units feature:

- **R-410A Refrigerant** - Environmentally friendly.
- **Single Speed Scroll Compressor** - Furnished on all KCA and KCB024 through 060 models.
- **Two-Stage Scroll Compressor** - Furnished on all KCB074 models. Allows rooftop units to deliver just the necessary amount of cooling needed to meet the space's demand.
- **Eco-last™ Coil System** (All KGB Models and KGA072 and 090 Models) - Smaller, lighter condenser coil with improved heat transfer.
- **High Pressure Switches** - Protect compressor.
- **Isolated Compressor Compartment** - Allows performance check during normal compressor operation without disrupting airflow.
- **Direct or Belt Drive Blower Motors** - Direct drive (024, 030, 036, 048 and 060 models). Belt drive motors (036, 048, 060, 072, 074 and 090 models) to maximize air performance.
- **Independent Motor Mounts** - Allows for easy and efficient service access without removing the top panel.
- **Downflow or Horizontal Airflow** - Easy field conversion.
- **Two Fork Lift Slots on Three Sides** - Easy to pick up and transport units from almost any angle.
- **Corrosion-Resistant Removable, Reversible Drain Pan** - Provides application flexibility, durability and improved serviceability.
- **Thermostatic Expansion Valves (All KGB Models)** - Provide peak cooling performance across the entire application range.
- **Common Components** - Many maintenance items are standard throughout the entire product line, reducing the need to carry different parts to the job or maintain in inventory.

## FEATURES AND BENEFITS

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### APPROVALS

AHRI Certified to AHRI Standard 210/240-2008 (2 thru 5 ton models) and AHRI Standard 340/360-2007 (6 and 7.5 ton models).

ETL and CSA listed.

Units are Certified by CSA.

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

All models are ASHRAE 90.1 compliant.

ISO 9001 Registered Manufacturing Quality System.

Models equipped with low NO<sub>x</sub> gas heat meet the California Nitrogen Oxides (NO<sub>x</sub>) Standards that apply in the South Coast Air Quality Management District and the San Francisco Bay Area Air Quality Management District.

### WARRANTY

Limited ten years aluminized heat exchanger, limited fifteen years optional stainless steel heat exchanger.

Limited five years on compressors.

Limited three years on the Eco-last™ Coil System.

Limited five years Optional High Performance Economizers.

Limited one year all other covered components.

### HEATING SYSTEM

- Aluminized steel inshot burners, direct spark ignition, electronic flame sensor, combustion air inducer, redundant automatic single or dual stage gas valve with manual shut-off.

#### Heat Exchanger

Tubular construction, aluminized steel, life cycle tested.

Stainless Steel Heat Exchanger is required if mixed air temperature is below 45°F.

### 2 Electronic Pilot Ignition

Electronic spark igniter provides positive direct ignition of burners on each operating cycle. The system permits main gas valve to stay open only when the burners are proven to be lit. Should a loss of flame occur, the gas valve closes, shutting off the gas to the burners. Ignition module has LED to indicate status and aid in troubleshooting.

Watchguard circuit on module automatically resets ignition controls after one hour of continuous thermostat demand after unit lockout, eliminating nuisance service calls. Ignition control is factory installed in the controls section.

#### Limit Controls

Factory installed, redundant limit controls with fixed temperature setting.

Heat limit controls protect heat exchanger and other components from overheating.

#### Safety Switches

Flame roll-out switch, flame sensor and combustion air inducer proving switch protect system operation.

#### Low NO<sub>x</sub> Models

All single phase models are available in low NO<sub>x</sub> versions.

### Required Selections

#### Gas Input Choice - Order one:

- Standard Gas Heat (1 Stage) 65,000 Btuh (Not available for 090 models)
- Medium Gas Heat (1 Stage) 108,000 Btuh
- Medium Gas Heat (2 Stage) 81,000/108,000 Btuh
- High Gas Heat (1 Stage) 150,000 Btuh
- High Gas Heat (2 Stage) 113,000/150,000 Btuh

#### Standard or Low NO<sub>x</sub>

Specify standard gas heat or Low NO<sub>x</sub> option (three phase models only).

*NOTE - All single phase models are Low NO<sub>x</sub> equipped.*

## FEATURES AND BENEFITS

### **HEATING SYSTEM (continued)**

#### **Options/Accessories**

##### **Factory Installed**

##### **Stainless Steel Heat Exchanger**

Required if mixed air temperature is below 45°F.

##### **Field Installed**

##### **Combustion Air Intake**

##### **Extensions**

Recommended for use with existing flue extension kits in areas where high snow areas can block intake air.

##### **Low Temperature Vestibule Heater**

Electric heater automatically controls minimum temperature in gas burner compartment when temperature is below -40°F. C.S.A. certified to allow operation of unit down to -60°F.

##### **LPG/Propane Kits**

Conversion kit to field change over units from Natural Gas to LPG/Propane.

##### **Vertical Vent Extension Kit**

Use to exhaust flue gases vertically above unit. Required when unit vent is too close to fresh air intakes per building codes. The vent kit also prevents ice formation on intake louvers.

### **COOLING SYSTEM**

Designed to maximize sensible and latent cooling performance at design conditions.

System can operate from 30°F to 125°F without any additional controls.

##### **R-410A Refrigerant**

Non-chlorine, ozone friendly, R-410A.

Unit is factory pre-charged with refrigerant. See Specifications Tables.

#### **3 Single Speed Scroll Compressor (024 through 072 and 090 Models)**

Scroll compressors for high performance, reliability and quiet operation.

Resiliently mounted on rubber grommets for quiet operation.

##### **Copeland Scroll Ultra Tech™ Two-Stage Compressor (074 Models)**

Two-stage scroll compressors for increased part load efficiency, high performance, reliability and quiet operation.

Resiliently mounted on rubber grommets for quiet operation.

##### **Compressor Crankcase Heater (Furnished all KGB Models and KGA072 and 090 Models)**

Protects against refrigerant migration that can occur during low ambient operation.

#### **4 Thermal Expansion Valve (All KGB Models)**

Assures optimal performance throughout the application range. Removable element head.

##### **Refrigerant Metering Orifice (All KGA Models)**

Accurately meters refrigerant in system.

Refrigerant control is accomplished by exact sizing of refrigerant metering orifice.

##### **Filter/Drier**

High capacity filter/drier protects the system from dirt and moisture.

##### **High Pressure Switch**

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

##### **Freezestat**

Protects the evaporator coil from damaging ice build-up due to conditions such as low/no air flow, or low refrigerant charge.

#### **5 Eco-last™ Coil System (All KGB Models and KGA072 and 090 Models)**

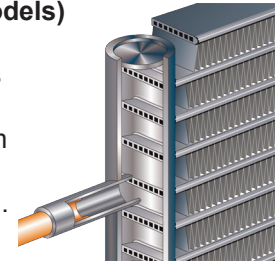
Condenser coil features lightweight, all aluminum brazed fin construction.

Constructed of three components: a flat extrusion tube, fins in-between the flat extrusion tubes and two refrigerant manifolds.

Eco-last™ Coil System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins).
- Smaller internal volume (reduced refrigerant charge).
- High durability (all aluminum construction).
- Fewer brazed joints.
- Compact design (reduces unit weight).
- Easy maintenance/cleaning.

Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection.





## FEATURES AND BENEFITS

### **COOLING SYSTEM**

#### **(continued)**

#### **Conventional Fin/Tube Coil (Condenser Coil for KGA036 thru 060 Models) and Evaporator Coil (all models)**

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested

Evaporator coil cross row circuiting with rifled tubing optimizes both sensible and latent cooling capacity.

#### **Condensate Drain Pan**

Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1.

Side or bottom drain connections. Reversible to allow connection at back of unit.

#### **6 Outdoor Coil Fan Motor**

Thermal overload protected, totally enclosed, permanently lubricated sleeve (024, 030, 036 and 048 models) or ball bearings (060, 072, 074 and 090 models), shaft up, wire basket mount.

#### **Outdoor Coil Fan**

PVC coated fan guard furnished.

### **Required Selections**

#### **Cooling Capacity**

Specify nominal cooling capacity of the unit.

### **Options/Accessories**

#### **Field Installed**

#### **Condensate Drain Trap**

Field installed only.

Available in copper or PVC.

#### **Compressor Crankcase Heater (Optional for KGA036 thru 060 Models Only)**

Protects against refrigerant migration that can occur during low ambient operation.

#### **Drain Pan Overflow Switch**

Monitors condensate level in drain pan, shuts down unit if drain becomes clogged.

#### **Low Ambient Kit**

Cycles the outdoor fan while allowing compressor operation in the cooling cycle. This intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity. Designed for use in ambient temperatures no lower than 0°F. A crankcase heater must be installed on the compressor.

### **CABINET**

#### **7 Construction**

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation. Base rails have rigging holes. Three sides of the base rail have fork slots.

Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

#### **Airflow Choice**

Units are shipped in downflow (vertical) configuration, can be field converted to horizontal air flow configuration without the need of a kit.

#### **8 Power/Gas Entry**

Electrical and gas lines can be brought through the unit base or through horizontal access knock-outs.

Optional Bottom Gas Entry Kit is available.

#### **9 Exterior Panels**

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

#### **10 Insulation**

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.

#### **Access Panels**

Access panels are provided for the economizer/filter section, heating/blower section, and the compressor/controls section.

*NOTE - KGA072/090 and KGB060 /074 models include a filler panel for proper cabinet fit for optional accessories (Economizers, Power Exhaust, Outdoor Air Dampers and Barometric Relief Dampers).*

### **Options/Accessories**

#### **Factory Installed**

#### **Corrosion Protection**

A completely flexible immersed coating with an electro-deposited dry film process. (AST ElectroFin E-Coat) Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing.

Indoor Corrosion Protection:

- Coated coil
- Painted blower housing
- Painted base

Outdoor Corrosion Protection:

- Coated coil
- Painted base

#### **11 Hinged Access Panels**

Large access panels are hinged and have quarter-turn latches for quick and easy access to maintenance areas (economizer / filter, compressor / controls, heating / blower).

#### **Field Installed**

#### **Combination Coil/Hail Guards**

Heavy gauge steel frame painted to match cabinet with expanded metal mesh to protect the outdoor coil from damage.

#### **Bottom Gas Entry Kit**

Field installed piping kit to facilitate bottom gas entry.

## FEATURES AND BENEFITS

### **CONTROLS**

#### **Unit Control**

All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection.

**Heat/Cool Staging** - Capable of up to 2 heat / 2 cool staging with a third party DDC control system or thermostat.

#### **Low Voltage Terminal Block** -

Provides screw terminal connections for thermostat or controller wiring.

**Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only.

### **Options / Accessories**

#### **Field Installed**

##### **Smoke Detector**

Photoelectric type, installed in supply air section, return air section or both sections. Available with power board and single sensor (supply or return) or power board and two sensors (supply and return). Power board located in unit control compartment.

### **12 BLOWER**

A wide selection of supply air blower options are available to meet a variety of air flow requirements.

#### **Motor**

Overload protected, equipped with ball bearings (belt drive) or sleeve bearings (direct drive).

Direct drive motors are offered on 024, 030, 036, 048 and 060 models.

Single Speed belt drive motors are offered on 036, 048, 060, 072 and 090 models and are available in several different sizes to maximize air performance.

Two-speed belt drive motors (low static/high static) are available on 074 models in several different sizes to maximize air performance.

#### **Supply Air Blower**

Forward curved blades, blower wheel is statically and dynamically balanced.

All belt drive motors have adjustable pulley for speed change.

#### **Ordering Information**

Specify direct drive or belt drive motor.

For belt drive, specify motor horsepower and drive kit number when base unit is ordered.

### **Required Selections**

#### **Supply Air Blower**

Order one, belt drive or direct drive (See Blower Data Table for specifications).

Order one drive kit, belt drive only, see Drive Kit Specifications Table.

### **INDOOR AIR QUALITY**

#### **Air Filters**

Disposable 2 inch filters furnished as standard.

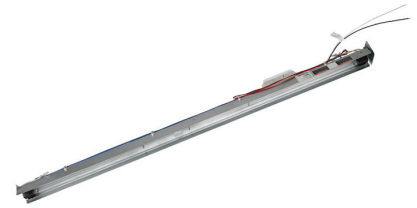
### **Options/Accessories**

#### **Field Installed**

##### **High Performance Air Filters**

Disposable MERV 8 or MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters.

##### **UVC Germicidal Lamps**



Helps eliminate mold and bacterial growth on the evaporator and drain pans. Improves indoor air quality and maintains efficiency of system by reducing fouling of evaporator coil.

##### **Indoor Air Quality (CO<sub>2</sub>) Sensor**

Monitors CO<sub>2</sub> levels adjusts economizer dampers as needed for Demand Control Ventilation.

## FEATURES AND BENEFITS

### ELECTRICAL

#### **Marked & Color-Coded Wiring**

All electrical wiring is color-coded and marked to identify which components it is connecting.

#### **Electrical Plugs**

Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

### **Required Selections**

#### **Voltage Choice**

Specify when ordering base unit.

### **Options/Accessories**

#### **Factory or Field Installed**

##### **Disconnect Switch (80 Amp)**

Accessible from outside of unit, spring loaded weatherproof cover furnished. Main power to the unit is field connected to the disconnect which allows all power to be shut off for service. See Electrical Data tables for ordering information, page 43.

##### **GFI Service Outlets (2)**

115V ground fault circuit interrupter (GFCI) type, non-powered, field-wired.

#### **Field Installed**

##### **GFI Weatherproof Cover**

Single-gang cover.

Heavy-duty UV-resistant polycarbonate case construction.

Hinged base cover with gasket.

### ECONOMIZER OPTIONS

#### Factory or Field Installed

#### **13 Economizer (Standard and High Performance Common Features)**

Outdoor Air Hood is furnished.

Factory installed Economizer can be ordered with two exhaust options:

- Barometric Relief Dampers and Exhaust Hood.
- No Exhaust.

Field installed Economizer includes Barometric Relief Dampers with Exhaust Hood.

Barometric Relief Dampers allow relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished.

Occupied/Unoccupied mode with field furnished setback thermostat.

Demand Control Ventilation (DCV) ready using optional CO<sub>2</sub> sensors.

Mixed Air Sensor is furnished for field installation in the rooftop unit. Sensor is factory installed when Economizers are factory installed.

Single sensible sensor is furnished with Economizer and enables economizer operation if the outdoor temperature is less than the setpoint of the control.

Horizontal Economizer Conversion kit is available for field installation.

#### **Standard Economizer Features (Not for Title 24)**

Gear-driven action, return air and outdoor air dampers, plug-in connections to unit, neoprene seals, 24-volt, fully-modulating spring return motor.

#### **Standard Economizer Control Module**

The Standard Economizer Control Module can be adjusted to operate based on outdoor air temperatures.



#### **Economizer Controls:**

- Damper Minimum Position - Can be set lower than traditional minimum air requirements resulting in cost savings.
- IAQ Sensor - Signals dampers to modulate and maintain 55°F when CO<sub>2</sub> is higher than the CO<sub>2</sub> setpoint.
- Demand Control Ventilation (DCV) LED - A steady green Demand Control Ventilation LED indicates the IAQ reading is higher than setpoint and requires more fresh air.
- Free Cool LED - A steady green LED indicates outdoor air is suitable for free cooling.

Free Cooling runs when outdoor air temperature is lower than the set temperature on the economizer control.

*NOTE: The Free Cooling default setting for outdoor air temperature sensor is 55°F.*

#### **High Performance Economizer Features**

Approved for California Title 24 building standards.

ASHRAE 90.1-2010 compliant.

Gear-driven action, high torque 24-volt fully-modulating spring return damper motor, return air and outdoor air dampers, plug-in connections to unit, nylon bearings, enhanced neoprene blade edge seals and flexible stainless steel jamb seals to minimize air leakage.

*NOTE - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.*

#### **High Performance Economizer Control Module**

Module provides inputs and outputs to control economizer based on parameter settings.







### **ECONOMIZER OPTIONS** **(continued)**

Module automatically detects sensors by polling to determine which sensors are installed in system.

Module displays any alarm messages (fault detection and diagnostics) as an aid in troubleshooting.

Non-volatile memory retains parameter settings in case of power failure.

Keypad with four navigation buttons and LCD screen is furnished for setting economizer parameters.

- Menu Up/Exit  button returns to the main menu.
- Arrow Up  button moves to the previous or next parameter within the selected menu.
- Arrow Down  button moves to the next parameter within the selected menu.
- Select (enter)  button confirms parameter selection.

#### **Main Menu Structure:**

- STATUS (economizer and system operation status)
- SETPOINTS (settings for various setpoint parameters)
- SYSTEM SETUP (settings/information about the system)
- ADVANCED SETUP (freeze protection, CO<sub>2</sub> settings, stage 3 delay and additional calibration settings)
- CHECKOUT (damper positions)
- ALARMS (output signal that can be configured for remote alarm monitoring)

*NOTE - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2013 Building Energy Efficiency Standards.*

Refer to Installation Instructions for complete setup information and menu parameters available.

#### **Factory or Field Installed**

##### **Single Enthalpy Temperature Control** **(Not for Title 24)**

Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control.

#### **Field Installed**

##### **Differential Enthalpy Control** **(Not for Title 24)**

Order two Single Enthalpy Controls. One is field installed in the return air section, the other in the outdoor air section. Allows the economizer control board to select between outdoor air or return air, whichever has lower enthalpy.

##### **Horizontal Economizer Conversion Kit**

Insulated panel covers the bottom return air opening on the unit base to convert downflow Economizer to horizontal airflow.

### **EXHAUST OPTIONS**

#### **Field Installed**

##### **14 Power Exhaust Fan**

Installs internal to unit for downflow applications only with Economizer option. Provides exhaust air pressure relief. Interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected.

Fan is 16 in. diameter with 4 fan blades and a 1/3 hp motor.

*NOTE - Not available for 024 and 030 models.*

*NOTE - If Power Exhaust is field installed with a factory installed Economizer, the Economizer must be ordered with the "No Exhaust" option and the Barometric Relief Dampers with Exhaust Hood must also be ordered separately for field installation.*

### **OUTDOOR AIR OPTIONS**

#### **Factory or Field Installed**

##### **Outdoor Air Dampers - Downflow or Horizontal**

Linked mechanical dampers, 0 to 35% (fixed) outdoor air adjustable, installs in unit.

Automatic model features fully modulating spring return damper motor with plug-in connection.

Manual model features a slide damper. Maximum mixed air temperature in cooling mode: 100°F.

Outdoor Air Hood is furnished.



### **ROOF CURBS**

Nailer strip furnished, mates to unit, US National Roofing Contractors Approved, shipped knocked down.

#### **Hybrid Roof Curbs, Downflow**

Roof curb can be assembled using interlocking tabs to fasten corners together. No tools required.

Curb can also be fastened together with furnished hardware.

Available in 8, 14, 18, and 24 inch heights.

#### **Full Perimeter Curbs, Downflow (090 Models Only)**

Hybrid roof curbs can be assembled using interlocking tabs to fasten corners together. No tools required.

Hybrid roof curbs can also be fastened together with furnished hardware.

Available in 8, 14, 18, and 24 inch heights.

*NOTE - 090 models can be used on smaller 79-3/4 in. Hybrid Roof Curbs (not full perimeter) with 15-3/4 in. overhang at condenser end of unit. See dimension drawing on page 60.*

#### **Adjustable Pitch Curb**

Fully adjustable pitch curb provides a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles.

Maximum slope is 3/4 in. per foot in any direction.

Uses interlocking tabs to fasten corners together. No tools required.

Hardware is furnished to connect upper curb with lower curb.

Available in 14 inch height.

#### **Adaptor Curbs (not shown)**

Curbs are regionally sourced. Dimensions will vary based upon the source. Contact your local sales representative for a detailed cut sheet with applicable dimensions.

### **CEILING DIFFUSERS**

#### **Ceiling Diffusers (Flush and Step-Down)**

Aluminum grilles, large center grille, insulated diffuser box with flanges, hanging rings furnished, interior transition (even air flow), internally sealed (prevents recirculation), adapts to T-bar ceiling grids or plaster ceilings.

#### **Transitions (Supply and Return)**

Used with diffusers, installs in roof curb, galvanized steel construction, flanges furnished for duct connection to diffusers, fully insulated.

## OPTIONS / ACCESSORIES - KGA/KGB

Item	Model No.	Catalog No.	Unit Model No.							
			KGA KGA KGA KGA							
			KGB 024	KGB 030	KGB 036	KGB 048	KGB 060	KGB 072	KGB 074	KGA 090
<b>COOLING SYSTEM</b>										
Condensate Drain Trap	PVC - C1TRAP20AD2	<b>76W26</b>	X	X	X	X	X	X	X	X
	Copper - C1TRAP10AD2	<b>76W27</b>	X	X	X	X	X	X	X	X
Corrosion Protection			O	O	O	O	O	O	O	O
Drain Pan Overflow Switch	K1SNSR71AB1-	<b>74W42</b>	X	X	X	X	X	X	X	X
Low Ambient Kit	K1SNSR33AN1	<b>41W33</b>	X	X	X	X	X	X	X	X
Efficiency		High								O
		Standard	O	O	O	O	O	O	O	O
Refrigerant Type		R-410A	O	O	O	O	O	O	O	O
<b>HEATING SYSTEM</b>										
Bottom Gas Piping Kit	T1GPKT01AN1	<b>19W50</b>	X	X	X	X	X	X	X	X
Low Temperature Vestibule Heater	208/230V-1 or 3 ph - T1CWKT01AN1Y	<b>19W53</b>	X	X	X	X	X	X	X	X
	460V-3ph - T1CWKT01AN1G	<b>19W54</b>			X	X	X	X	X	X
	575V-3ph - T1CWKT01AN1J	<b>19W62</b>			X	X	X	X	X	X
Combustion Air Intake Extensions	T1EXTN10AN1	<b>19W51</b>	X	X	X	X	X	X	X	X
Gas Heat Input	Standard One-Stage - 65 kBtuh input	Factory	O	O	O	O	O	O	O	O
	Medium One-Stage - 108 kBtuh input	Factory			O	O	O	O	O	O
	Medium Two Stage - 81/108 kBtuh input	Factory			O	O	O	O	O	O
	High One-Stage - 150 kBtuh input	Factory				O	O	O	O	O
	High Two-Stage - 113/150 kBtuh input	Factory				O	O	O	O	O
LPG/Propane Conversion Kits	For one-stage models - C1PROP10AP2	<b>14N20</b>	X	X	X	X	X	X	X	X
	For two-stage models - C1PROP20AP2	<b>14N21</b>			X	X	X	X	X	X
Stainless Steel Heat Exchanger			O	O	O	O	O	O	O	O
Vertical Vent Extension	C1EXTN20FF1	<b>31W62</b>	X	X	X	X	X	X	X	X
<b>BLOWER - SUPPLY AIR</b>										
Motors	Direct Drive - 0.25 hp (208/230V-1ph)	Factory	O	O						
	Direct Drive - 0.5 hp (208/230V-1ph, 208/230V-3ph, 460V-3ph, 575V-3ph)	Factory			O	O				
	Direct Drive - 0.75 hp (208/230V-1ph, 208/230V-3ph, 460V-3ph, 575V-3ph)	Factory								O
	Belt Drive - 0.75 hp (208/230V-1ph) Standard Efficiency	Factory			<sup>1</sup> O	<sup>1</sup> O	<sup>1</sup> O			
	Belt Drive - 1.5 hp (208/230V-1ph) Standard Efficiency	Factory			<sup>1</sup> O	<sup>1</sup> O	<sup>1</sup> O			
	Belt Drive - 1 hp (208/230V, 460V, 575V-3ph) Standard Efficiency	Factory			O	O	O	<sup>2</sup> O	<sup>2</sup> O	O
	Belt Drive - 2 hp (208/230V, 460V, 575V-3ph) Standard Efficiency	Factory			O	O	O	<sup>2</sup> O	<sup>2</sup> O	O
	Belt Drive - 3 hp (208/230V, 460V, 575V-3ph) Standard Efficiency	Factory								O
	Belt Drive - 1 hp (208/230V, 460V, 575V-3ph) ( 2 Speed)	Factory						<sup>3</sup> O	<sup>3</sup> O	
	Belt Drive - 2 hp (208/230V, 460V, 575V-3ph) (2 Speed)	Factory						<sup>3</sup> O	<sup>3</sup> O	
Drive Kits	Kit A01 - T1DRKT001-1 - 673-1010 rpm	Factory			O					
See Blower Data Tables for selection	Kit A02 - T1DRKT002-1 - 745-1117 rpm	Factory				O				
	Kit A03 - T1DRKT003-1 - 833-1250 rpm	Factory					O			
	Kit A04 - T1DRKT004-1 - 968-1340 rpm	Factory						<sup>2</sup> O	<sup>2</sup> O	
	Kit A05 - T1DRKT005-1 - 897-1346 rpm	Factory			O					
	Kit A06 - T1DRKT006-1 - 1071-1429 rpm	Factory				O				
	Kit A07 - T1DRKT007-1 - 1212-1548 rpm	Factory					O			
	Kit A08 - T1DRKT008-1 - 1193-1591 rpm	Factory						<sup>2</sup> O	<sup>2</sup> O	
	Kit AA01 - T1DRKT001AP1 - 522-784 rpm	Factory						<sup>3</sup> O	<sup>3</sup> O	O
	Kit AA02 - T1DRKT002AP1 - 632-875 rpm	Factory						<sup>3</sup> O	<sup>3</sup> O	O
	Kit AA03 - T1DRKT003AP1 - 798-1105 rpm	Factory						<sup>3</sup> O	<sup>3</sup> O	O
	Kit AA04 - T1DRKT004AP1 - 921-1228 rpm	Factory								O

<sup>1</sup> 1 phase belt drive blower motors are available for KCB models only.

<sup>2</sup> 072S and 074S Single Speed Belt Drive models only.

<sup>3</sup> 072H and 074H Two-Speed Belt Drive models only.

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.

## OPTIONS / ACCESSORIES - KGA/KGB

Item	Model No.	Catalog No.	Unit Model No.							
			KGB 024	KGB 030	KGA 036	KGA 048	KGA 060	KGA 072	KGA 074	KGA 090
<b>CABINET</b>										
Hinged Access Panels			O	O	O	O	O	O	O	
<b>CONTROLS</b>										
Commercial Controls								X		
BACnet® Thermostat with Display	K0SNSR01FF1	97W23	X	X	X	X	X	X	X	
BACnet® Thermostat without Display	K0SNSR00FF1	97W24	X	X	X	X	X	X	X	
Plenum Cable (75 ft.)	K0MISC00FF1	97W25	X	X	X	X	X	X	X	
Smoke Detector - Supply or Return (Power board and one sensor)	C1SNSR44AP1	53W78	X	X	X	X	X	X	X	
Smoke Detector - Supply and Return (Power board and two sensors)	C1SNSR43AP1	53W79	X	X	X	X	X	X	X	
<b>ECONOMIZER</b>										
<b>Standard Economizer With Outdoor Air Hood (Sensible Control) (Not for Title 24)</b>										
Standard Economizer - Includes Barometric Relief Dampers and Exhaust Hood	K1ECON30A-3-	14D90	OX	OX	OX	OX	OX	OX	OX	
Standard Economizer - No Exhaust	Factory		O	O	O	O	O	O	O	
<b>Standard Economizer Controls (Not for Title 24)</b>										
Single Enthalpy Control	C1SNSR64FF1	53W64	OX	OX	OX	OX	OX	OX	OX	
Differential Enthalpy Control (order 2)	C1SNSR64FF1	53W64	X	X	X	X	X	X	X	
<b>High Performance Economizer With Outdoor Air Hood (Sensible Control) (Approved for California Title 24 Building Standards)</b>										
High Performance Economizer - Includes Barometric Relief Dampers and Exhaust Hood	K1ECON32A-2	14D91	OX	OX	OX	OX	OX	OX	OX	
<b>High Performance Economizer Controls (Not for Title 24)</b>										
Single Enthalpy Control	C1SNSR60FF1	10Z75	OX	OX	OX	OX	OX	OX	OX	
Differential Enthalpy Control (order 2)	C1SNSR60FF1	10Z75	X	X	X	X	X	X	X	
<b>Economizer Accessories</b>										
Horizontal Economizer Conversion Kit	T1HECK00AN1	17W45	X	X	X	X	X	X	X	
<b>OUTDOOR AIR</b>										
<b>Outdoor Air Dampers With Outdoor Air Hood</b>										
Motorized	K1DAMP21A-1	79W95	OX	OX	OX	OX	OX	OX	OX	
Manual	C1DAMP11A-1	53W34	OX	OX	OX	OX	OX	OX	OX	
<b>POWER EXHAUST FAN</b>										
Standard Static <i>NOTE - Order Barometric Relief Dampers with Exhaust Hood below if unit is ordered with factory installed Standard Economizer with "No Exhaust" option</i>	208/230V-1 or 3ph - C1PWRE10A-1P	79W87			X	X	X	X	X	
	460V-3ph - C1PWRE10A-1G	79W88			X	X	X	X	X	
	575V-3ph - C1PWRE10A-1J	79W89			X	X	X	X	X	
<b><sup>1</sup> BAROMETRIC RELIEF</b>										
Barometric Relief Dampers with Exhaust Hood	C1DAMP50A-1-	74W38	X	X	X	X	X	X	X	

<sup>1</sup> Required when Economizer is factory installed (no exhaust option) with field installed Power Exhaust Fan option.

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

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X - Field Installed.

## OPTIONS / ACCESSORIES - KGA/KGB

Item	Model No.	Catalog No.	Unit Model No.						
			KGB	KGB	KGA	KGA	KGA	KGA	KGA
			024	030	036	048	060	072	074
<b>ELECTRICAL</b>									
Voltage 60 hz	208/230V - 1 phase		O	O	<sup>1</sup> O	<sup>1</sup> O	<sup>1</sup> O		
	208/230V - 3 phase				O	O	O	O	O
	460V - 3 phase				O	O	O	O	O
	575V - 3 phase				O	O	O	O	O
Disconnect	See Electrical Data Tables for selection		OX	OX	OX	OX	OX	OX	OX
GFI Service Outlets	15 amp non-powered, field-wired (208/230V, 460V only)	<b>74M70</b>	OX	OX	OX	OX	OX	OX	OX
	20 amp non-powered, field-wired (575V only)	C1GFCI20FF1 <b>67E01</b>	X	X	X	X	X	X	X
Weatherproof Cover for GFI	C1GFCI99FF1	<b>10C89</b>	X	X	X	X	X	X	X
<b>INDOOR AIR QUALITY</b>									
<b>Indoor Air Quality (CO<sub>2</sub>) Sensors</b>									
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	<b>77N39</b>	X	X	X	X	X	X	X
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0SNSR53AE1L	<b>87N54</b>	X	X	X	X	X	X	X
CO <sub>2</sub> Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1-	<b>85L43</b>	X	X	X	X	X	X	X
Aspiration Box - for duct mounting non-plenum rated CO <sub>2</sub> sensor ( <b>77N39</b> )	C0MISC16AE1-	<b>90N43</b>	X	X	X	X	X	X	X
<b>UVC Germicidal Lamps</b>									
<sup>2</sup> UVC Light Kit (208/230v-1ph)	E1UVCL10AN1-	<b>50W90</b>	X	X	X	X	X	X	X
<b>CEILING DIFFUSERS</b>									
Step-Down - Order one	RTD9-65-R	<b>27G87</b>	X	X	X	X	X		
	RTD11-95	<b>29G04</b>						X	X
Flush - Order one	FD9-65-R	<b>27G86</b>	X	X	X	X	X		
	FD11-95	<b>29G08</b>						X	X
Transitions (Supply and Return) - Order one	T1TRAN10AN1	<b>17W53</b>	X	X	X	X	X		
	T1TRAN20N-1	<b>17W54</b>						X	X

<sup>1</sup> KGB models only.

<sup>2</sup> Lamps operate on 110-230V single-phase power supply. Step-down transformer may be ordered separately for 460V and 575V units. Alternately, 110V power supply may be used to directly power the UVC ballast(s).

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.



**OPTIONS / ACCESSORIES - KGA/KGB**

Item	Model No.	Catalog No.	Unit Model No.							
			KGB	KGB	KGA	KGA	KGA	KGA	KGA	KGA
			024	030	036	048	060	072	074	090
<b>ROOF CURBS</b>										
<b>Hybrid Roof Curbs, Downflow</b>										
8 in. height	C1CURB70A-1	11F50	X	X	X	X	X	X	X	<sup>1</sup> X
14 in. height	C1CURB71A-1	11F51	X	X	X	X	X	X	X	<sup>1</sup> X
18 in. height	C1CURB72A-1	11F52	X	X	X	X	X	X	X	<sup>1</sup> X
24 in. height	C1CURB73A-1	11F53	X	X	X	X	X	X	X	<sup>1</sup> X
<b>Hybrid Roof Curbs, Full Perimeter, Downflow</b>										
8 in. height	K1CURB70AP1	11S47								X
14 in. height	K1CURB71AP1	11S48								X
18 in. height	K1CURB72AP1	11T01								X
24 in. height	K1CURB73AP1	11T06								X
<b>Adjustable Pitch Curb</b>										
14 in. height	C1CURB55AT1	43W27	X	X	X	X	X	X		<sup>1</sup> X

<sup>1</sup> 090 models will fit smaller roof curbs with overhang. See dimension drawing.

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X - Field Installed.

## OPTIONS / ACCESSORIES - KGA ONLY

Item	Model No.	Catalog No.	Unit Model No.				
			KGA 036	KGA 048	KGA 060	KGA 072	KGA 090
<b>COOLING SYSTEM</b>							
Compressor Crankcase Heater	208/230V-1 or 3 ph - K1CCHT02A-1P	<b>39W04</b>	X				
	208/230V-1 or 3 ph - T1CCHT01AN1P	<b>95M07</b>		X	X		
	460V-3ph - K1CCHT012A-1G	<b>39W05</b>	X				
	460V-3ph - T1CCHT01AN1G	<b>95M08</b>		X	X		
	575V-3ph - K1CCHT02A-1J	<b>39W06</b>	X				
	575V-3ph - T1CCHT01AN1J	<b>95M09</b>		X	X		

### CABINET

Combination Coil/Hail Guards	C1GARD51A-1	<b>13R98</b>	X	X	X		
	C1GARD51AT1	<b>13T03</b>				X	
	K1GARD50AP1	<b>13T17</b>					X

### CONTROLS

BACnet®	K0CTRL31A-1	<b>96W14</b>	OX	OX	OX		
	K0CTRL31AP1	<b>12B99</b>				OX	OX
Novar® 2051	K0CTRL30A-1	<b>96W11</b>	OX	OX	OX		
	K0CTRL30AP1	<b>12B98</b>				OX	OX

### INDOOR AIR QUALITY

#### Air Filters

High Efficiency Air Filters	MERV 8 (16 x 20 x 2) - C1FLTR15A-1-	<b>54W20</b>	X	X	X		
	MERV 13 (16 x 20 x 2) - T1FLTR40A-1-	<b>52W37</b>	X	X	X		
Order 4 per unit	MERV 8 (20 x 20 x 2) - C1FLTR15D-1-	<b>54W21</b>				X	X
	MERV 13 (20 x 20 x 2) - C1FLTR40D-1-	<b>52W39</b>				X	X

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.

## OPTIONS / ACCESSORIES - KGB ONLY

Item	Model No.	Catalog No.	Unit Model No.					
			KGB 024	KGB 030	KGB 036	KGB 048	KGB 060	KGB 072
<b>CABINET</b>								
Combination Coil/Hail Guards	C1GARD51A-1	<b>13R98</b>	X	X	X	X		
	C1GARD51AT1	<b>13T03</b>					X	X
<b>CONTROLS</b>								
BACnet®	K0CTRL31A-1	<b>96W14</b>	OX	OX	OX	OX		
	K0CTRL31AP1	<b>12B99</b>					OX	OX
Novar® 2051	K0CTRL30A-1	<b>96W11</b>	OX	OX	OX	OX		
	K0CTRL30AP1	<b>12B98</b>					OX	OX

### INDOOR AIR QUALITY

#### Air Filters

High Efficiency Air Filters	MERV 8 (16 x 20 x 2) - C1FLTR15A-1-	<b>54W20</b>	X	X	X	X		
	MERV 13 (16 x 20 x 2) - T1FLTR40A-1-	<b>52W37</b>	X	X	X	X		
Order 4 per unit	MERV 8 (20 x 20 x 2) - C1FLTR15D-1-	<b>54W21</b>					X	X
	MERV 13 (20 x 20 x 2) - C1FLTR40D-1-	<b>52W39</b>					X	X

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.

**SPECIFICATIONS - DIRECT DRIVE BLOWER - KGB**
**2 - 2.5 TON**

General Data		Nominal Tonnage	2 Ton	2.5 Ton
		Model No.	KGB024S4D	KGB030S4D
		Efficiency Type	Standard	Standard
		Blower Type	Multi-Speed Direct Drive	Multi-Speed Direct Drive
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		24,800	31,200
	<sup>1</sup> Net Cooling Capacity - Btuh		24,200	30,200
	AHRI Rated Air Flow - cfm		840	1010
	<sup>2</sup> Sound Rating Number (SRN) ((dBA)		74	74
	Total Unit Power - kW		1.9	2.4
	<sup>1</sup> SEER (Btuh/Watt)		14.0	14.0
	<sup>1</sup> EER (Btuh/Watt)		12.7	11.5
<b>Refrigerant</b>	Type		R-410A	R-410A
	Charge Furnished		4 lbs. 3 oz.	5 lbs. 1 oz.
<b>Gas Heating Options - See page 21</b>			<b>Standard (1 Stage)</b>	<b>Standard (1 Stage)</b>
<b>Compressor Type (one per unit)</b>			Scroll	Scroll
<b>Outdoor Coil</b>	Net face area - sq. ft.		11.7	11.7
	Number of rows		1	1
	Fins per inch		23	23
<b>Outdoor Coil Fan</b>	Motor - (No.) HP		(1) 1/4	(1) 1/4
	Motor rpm		825	825
	Total Motor Input - watts		250	250
	Diameter - (No.) in. / No. of blades		(1) 24 - 3	(1) 24 - 3
	Total air volume - cfm		3100	3100
<b>Indoor Coil</b>	Net face area - sq. ft.		7.8	7.8
	Tube diameter - in.		3/8	3/8
	Number of rows		2	3
	Fins per inch		14	14
	Drain Connection (no.) and size - in.		(1) 1 NPT	(1) 1 NPT
	Expansion device type		Balanced Port Thermostatic Expansion Valve, removable power head	
<b>Indoor Blower</b>	Nominal Motor HP		0.25 hp	0.25 hp
	Wheel nominal diameter x width - in.		(1) 10 x 10	(1) 10 x 10
<b>Filters</b>	Type		Disposable	
	Number and size - in.		(4) 16 x 20 x 2	
<b>Electrical Characteristics - 60 Hz</b>			208/230V 1 phase	208/230V 1 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

**SPECIFICATIONS - DIRECT DRIVE BLOWER - KGB**
**3 - 5 TON**

General Data		Nominal Tonnage	3 Ton	4 Ton	5 Ton
		Model No.	KGB036S4D	KGB048S4D	KGB060S4D
		Efficiency Type	Standard	Standard	Standard
		Blower Type	Multi-Speed Direct Drive	Multi-Speed Direct Drive	Multi-Speed Direct Drive
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		38,500	49,700	61,900
	<sup>1</sup> Net Cooling Capacity - Btuh		37,200	47,500	59,500
	AHRI Rated Air Flow - cfm		1140	1600	1760
	<sup>2</sup> Sound Rating Number (SRN)((dBA)		74	74	79
	Total Unit Power - kW		2.9	4.1	5.0
	<sup>1</sup> SEER (Btuh/Watt)		14.0	14.0	14.0
	<sup>1</sup> EER (Btuh/Watt)		12.5	11.5	11.8
<b>Refrigerant</b>	Type		R-410A	R-410A	R-410A
	Charge Furnished		5 lbs. 9 oz.	5 lbs. 6 oz.	6 lbs. 13 oz.
<b>Gas Heating Options - See page 21</b>			<b>Standard (1 Stage) or Medium (1 or 2 Stage)</b>	<b>Standard (1 Stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)</b>	
<b>Compressor Type (one per unit)</b>			Scroll	Scroll	Scroll
<b>Outdoor Coil</b>	Net face area - sq. ft.		14.5	14.5	17.8
	Number of rows		1	1	1
	Fins per inch		23	23	23
<b>Outdoor Coil Fan</b>	Motor - (No.) HP		(1) 1/4	(1) 1/4	(1) 1/3
	Motor rpm		825	825	1075
	Total Motor Input - watts		250	250	370
	Diameter - (No.) in. / No. of blades		(1) 24 - 3	(1) 24 - 3	(1) 24 - 3
	Total air volume - cfm		3300	3300	4700
<b>Indoor Coil</b>	Net face area - sq. ft.		7.8	7.8	9.7
	Tube diameter - in.		3/8	3/8	3/8
	Number of rows		3	3	4
	Fins per inch		14	14	14
	Drain Connection (no.) and size - in.		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type		Balanced Port Thermostatic Expansion Valve, removable power head		
<b>Indoor Blower</b>	Nominal Motor HP		0.5 hp	0.5 hp	0.75 hp
	Wheel nominal diameter x width - in.		(1) 10 x 10	(1) 10 x 10	(1) 11 x 10
<b>Filters</b>	Type		Disposable		
	Number and size - in.		(4) 16 x 20 x 2		(4) 20 x 20 x 2
<b>Electrical Characteristics - 60 Hz</b>			208/230V 1 phase	208/230V 1 phase	208/230V 1 phase
			208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.



**SPECIFICATIONS - BELT DRIVE BLOWER - KGB**

**3 - 5 TON**

General Data		Nominal Tonnage	3 Ton	4 Ton	5 Ton		
		Model No.	KGB036S4B	KGB048S4B	KGB060S4B		
		Efficiency Type	Standard	Standard	Standard		
		Blower Type	Single Speed Belt Drive	Single Speed Belt Drive	Single Speed Belt Drive		
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		38,500	49,700	61,900		
	<sup>1</sup> Net Cooling Capacity - Btuh		37,200	47,500	59,500		
	AHRI Rated Air Flow - cfm		1140	1600	1760		
	<sup>2</sup> Sound Rating Number (SRN) (dBA)		74	74	79		
	Total Unit Power - kW		2.9	4.1	5		
	<sup>1</sup> SEER (Btuh/Watt)		14.0	14.0	14.0		
	<sup>1</sup> EER (Btuh/Watt)		12.5	11.5	11.8		
<b>Refrigerant</b>	Type		R-410A	R-410A	R-410A		
	Charge Furnished		5 lbs. 9 oz.	5 lbs. 6 oz.	6 lbs. 13 oz.		
<b>Gas Heating Options - See page 21</b>			<b>Standard (1 Stage) or Medium (1 or 2 Stage)</b>	<b>Standard (1 Stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)</b>			
<b>Compressor Type (one per unit)</b>			Scroll	Scroll	Scroll		
<b>Outdoor Coil</b>	Net face area - sq. ft.		14.5	14.5	17.8		
	Number of rows		1	1	1		
	Fins / inch		23	23	23		
<b>Outdoor Coil Fan</b>	Motor - (No.) HP		(1) 1/4	(1) 1/4	(1) 1/3		
	Motor rpm		825	825	1075		
	Total Motor Input - watts		250	250	370		
	Diameter - (No.) in. / No. of blades		(1) 24 - 3	(1) 24 - 3	(1) 24 - 3		
	Total air volume - cfm		3300	3300	4700		
<b>Indoor Coil</b>	Net face area - sq. ft.		7.8	7.8	9.7		
	Tube diameter - in.		3/8	3/8	3/8		
	Number of rows		3	3	4		
	Fins per inch		14	14	14		
	Drain Connection (no.) and size - in.		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT		
	Expansion device type		Balanced Port Thermostatic Expansion Valve, removable power head				
<sup>3</sup> <b>Indoor Blower &amp; Drive Selection</b>	Nominal Motor HP	208/230V-1ph	0.75 hp, 1.5 hp	0.75 hp, 1.5 hp	0.75 hp, 1.5 hp		
		All others voltages	1 hp, 2 hp	1 hp, 2 hp	1 hp, 2 hp		
	Maximum Usable Motor HP	208/230V-1ph	0.86 hp, 1.7 hp	0.86 hp, 1.7 hp	0.86 hp, 1.7 hp		
		All other voltages	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp		
	Available Drive Kits	A01	673 - 1010 rpm	A02	745 - 1117 rpm	A03	833 - 1250 rpm
		A05	897 - 1346 rpm	A06	1071 - 1429 rpm	A07	1212 - 1548 rpm
Wheel nominal diameter x width - in.		(1) 10 x 10	(1) 10 x 10	(1) 10 x 10	(1) 10 x 10		
<b>Filters</b>	Type	Disposable					
	Number and size - in.	(4) 16 x 20 x 2			(4) 20 x 20 x 2		
<b>Electrical Characteristics - 60 Hz</b>			208/230V 1 phase	208/230V, 1 phase	208/230V 1 phase		
			208/230V, 460V & 575V 3 phase	208/230V 460V & 575V 3 phase	208/230V 460V & 575V 3 phase		

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

**SPECIFICATIONS - BELT DRIVE BLOWER - KGB**
**6 TON**

General Data	Nominal Tonnage	6 Ton	6 Ton	6 Ton
	Model No.	KGB072H4B	KGB074H4T	KGB074S4T
	Efficiency Type	High	High	Standard
	Blower Type	Single Speed Belt Drive	Two Speed Belt Drive	Two Speed Belt Drive
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh	73,500	72,000	71,000
	<sup>1</sup> Net Cooling Capacity - Btuh	72,000	69,000	68,000
	AHRI Rated Air Flow - cfm	1920	2100	2100
	<sup>2</sup> Sound Rating Number (SRN) (dBA)	79	79	79
	Total Unit Power - kW	6.0	5.7	6.1
	<sup>1</sup> IEER	13.5	16.0	15.0
	<sup>1</sup> EER (Btuh/Watt)	12.0	12.0	11.2
<b>Refrigerant</b>	Type	R-410A	R-410A	R-410A
	Charge Furnished	7 lbs. 8 oz.	7 lbs. 2 oz.	7 lbs. 2 oz.
<b>Gas Heating Options - See page 21</b>		<b>Standard (1 stage), Medium (1 or 2 stage), or High (1 or 2 stage)</b>	<b>Standard (1 stage), Medium (1 or 2 stage), or High (1 or 2 stage)</b>	<b>Standard (1 stage), Medium (1 or 2 stage), or High (1 or 2 stage)</b>
<b>Compressor Type (one per unit)</b>		Scroll	Two-Stage Scroll	Two-Stage Scroll
<b>Outdoor Coil</b>	Net face area - sq. ft.	17.8	17.8	17.8
	Number of rows	1	1	1
	Fins / inch	23	23	23
<b>Outdoor Coil Fan</b>	Motor - (No.) HP	(1) 1/3	(1) 1/3	(1) 1/3
	Motor rpm	1075	1075	1075
	Total Motor Input - watts	410	375	375
	Diameter - (No.) in. / No. of blades	(1) 24 - 3	(1) 24 - 3	(1) 24 - 3
	Total air volume - cfm	4800	4700	4700
<b>Indoor Coil</b>	Net face area - sq. ft.	9.72	9.72	9.72
	Tube diameter - in.	3/8	3/8	3/8
	Number of rows	4	4	4
	Fins per inch	14	14	14
	Drain Connection (no.) and size - in.	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removable power head		
<sup>3</sup> <b>Indoor Blower &amp; Drive Selection</b>	Nominal Motor Output	1 hp, 2 hp	1 hp, 2 hp	1 hp, 2 hp
	Maximum Usable Motor Output (US Only)	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp
	Motor - Drive Kit Number	AA01 522-784 rpm	AA01 522-784 rpm	A04 968 - 1340 rpm
		AA02 632-875 rpm	AA02 632-875 rpm	A08 1193-1591 rpm
		AA03 798-1105 rpm	AA03 798-1105 rpm	
Wheel Nominal Diameter x Width - in.	(1) 15 x 9	(1) 15 x 9	(1) 10 x 10	
<b>Filters</b>	Type	Disposable		
	Number and size - in.	(4) 20 x 20 x 2	(4) 20 x 20 x 2	(4) 20 x 20 x 2
<b>Electrical Characteristics - 60 Hz</b>		208/230V, 460V or 575V – 60 hertz – 3 phase		

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

**SPECIFICATIONS - DIRECT DRIVE BLOWER- KGA**
**3 - 5 TON**

General Data		Nominal Tonnage	3 Ton	4 Ton	5 Ton
		Model No.	KGA036S4D	KGA048S4D	KGA060S4D
		Efficiency Type	Standard	Standard	Standard
		Blower Type	Multi-Speed Direct Drive	Multi-Speed Direct Drive	Multi-Speed Direct Drive
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		37,500	50,000	61,800
	<sup>1</sup> Net Cooling Capacity - Btuh		36,000	48,000	59,000
	AHRI Rated Air Flow - cfm		1200	1600	1800
	<sup>2</sup> Sound Rating Number (SRN)(dBA)		75	75	82
	Total Unit Power - kW		3.4	4.4	5.3
	<sup>1</sup> SEER (Btuh/Watt)		13.0	13.0	13.0
	<sup>1</sup> EER (Btuh/Watt)		10.7	11	11.2
<b>Refrigerant</b>	Type		R-410A	R-410A	R-410A
	Charge Furnished		7 lbs. 12 oz.	8 lbs. 12 oz.	12 lbs. 8 oz.
<b>Gas Heating Options - See page 21</b>			<b>Standard (1 Stage) or Medium (1 or 2 Stage)</b>	<b>Standard (1 Stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)</b>	
<b>Compressor Type (one per unit)</b>			Scroll	Scroll	Scroll
<b>Outdoor Coil</b>	Net face area - sq. ft.		15.6	15.6	15.6
	Tube diameter - in.		3/8	3/8	3/8
	Number of rows		1	1.5	2
	Fins per inch		20	20	20
<b>Outdoor Coil Fan</b>	Motor - (No.) HP		(1) 1/4	(1) 1/4	(1) 1/3
	Motor rpm		825	825	1075
	Total Motor Input - watts		250	250	370
	Diameter - (No.) in. / No. of blades		(1) 24 - 3	(1) 24 - 3	(1) 24 - 3
	Total air volume - cfm		3700	3500	4300
<b>Indoor Coil</b>	Net face area - sq. ft.		7.8	7.8	7.8
	Tube diameter - in.		3/8	3/8	3/8
	Number of rows		3	3	4
	Fins per inch		14	14	14
	Drain Connection (no.) and size - in.		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type		Refrigerant Metering Orifice (RFC)		
<b>Indoor Blower</b>	Nominal Motor HP		0.5 hp	0.5 hp	0.75 hp
	Wheel nominal diameter x width - in.		(1) 10 x 10	(1) 10 x 10	(1) 11 x 10
<b>Filters</b>	Type		Disposable		
	Number and size - in.		(4) 16 x 20 x 2		
<b>Electrical Characteristics - 60 Hz</b>			208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

**SPECIFICATIONS - BELT DRIVE BLOWER - KGA**

**3 - 7.5 TON**

General Data		Nominal Tonnage	3 Ton	4 Ton	5 Ton	6 Ton	7.5 Ton	
Model No.			<b>KGA036S4B</b>	<b>KGA048S4B</b>	<b>KGA060S4B</b>	<b>KGA072S4B</b>	<b>KGA090S4B</b>	
Efficiency Type			<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	
Blower Type			Single Speed Belt Drive	Single Speed Belt Drive	Single Speed Belt Drive	Single Speed Belt Drive	Single Speed Belt Drive	
<b>Cooling Performance</b>	Gross Cooling Capacity - Btuh		37,500	50,000	61,800	72,500	92,000	
	Net Cooling Capacity - Btuh		<sup>1</sup> 36,000	<sup>1</sup> 48,000	<sup>1</sup> 59,000	<sup>2</sup> 69,000	<sup>2</sup> 90,000	
	AHRI Rated Air Flow - cfm		1200	1600	1800	2450	2430	
	<sup>3</sup> Sound Rating Number (SRN) (dBA)		75	75	82	79	79	
	Total Unit Power - kW		3.4	4.4	5.3	6.1	8.2	
	SEER (Btuh/Watt)		<sup>1</sup> 13.0	<sup>1</sup> 13.0	<sup>1</sup> 13.0	---	---	
	IEER (Btuh/Watt)		---	---	---	<sup>2</sup> 12.3	<sup>2</sup> 11.2	
EER (Btuh/Watt)		<sup>1</sup> 10.7	<sup>1</sup> 11.0	<sup>1</sup> 11.2	<sup>2</sup> 11.2	<sup>2</sup> 11.0		
<b>Refrigerant</b>	Type		R-410A	R-410A	R-410A	R-410A	R-410A	
	Charge Furnished		7 lbs. 12 oz.	8 lbs. 12 oz.	12 lbs. 8 oz.	7 lbs. 1 oz.	8 lbs. 8 oz.	
<b>Gas Heating Options - See page 21</b>			<b>Standard (1 Stage) or Medium (1 or 2 Stage)</b>	<b>Standard (1 Stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)</b>			<b>Medium (1 or 2 Stage) or High (1 or 2 Stage)</b>	
<b>Compressor Type (one per unit)</b>			Scroll	Scroll	Scroll	Scroll	Scroll	
<b>Outdoor Coil</b>	Net face area - sq. ft.		15.6	15.6	15.6	17.8	24.2	
	Tube diameter - in.		3/8	3/8	3/8	---	---	
	Number of rows		1	1.5	2	1	1	
	Fins / inch		20	20	20	23	23	
<b>Outdoor Coil Fan</b>	Motor - (No.) HP		(1) 1/4	(1) 1/4	(1) 1/3	(1) 1/3	(1) 1/2	
	Motor rpm		825	825	1075	1075	1075	
	Total Motor Input - watts		250	250	370	370	520	
	Diameter - (No.) in. / No. of blades		(1) 24 - 3	(1) 24 - 3	(1) 24 - 3	(1) 24 - 3	(1) 24 - 4	
	Total air volume - cfm		3700	3500	4300	4700	5300	
<b>Indoor Coil</b>	Net face area - sq. ft.		7.8	7.8	7.8	9.7	9.7	
	Tube diameter - in.		3/8	3/8	3/8	3/8	3/8	
	Number of rows		3	3	4	4	4	
	Fins per inch		14	14	14	14	14	
	Drain Connection (no.) and size - in.		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	
Expansion device type			Refrigerant Metering Orifice (RFC)					
<sup>4</sup> <b>Indoor Blower &amp; Drive Selection</b>	Nominal Motor HP		1 hp, 2 hp	1 hp, 2 hp	1 hp, 2 hp	1 hp, 2 hp	1 hp	
	Maximum Usable Motor HP		1.15 hp, 2.3 hp	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp	1.15 hp, 2.3 hp	1.15 hp	
	Available Drive Kits	A01		A02		A03		AA01
		673 - 1010 rpm		745 - 1117 rpm		833 - 1250 rpm		968 - 1340 rpm
		A05		A06		A07		A08
	897 - 1346 rpm		1071 - 1429 rpm		1212 - 1548 rpm		1193 - 1591 rpm	
	Nominal Motor HP		---	---	---	---	2 hp	
	Maximum Usable Motor HP		---	---	---	---	2.3 hp	
	Available Drive Kits	---		---		---		AA02
		---		---		---		632 - 875 rpm
---			---		---		AA03	
---		---		---		798 - 1105 rpm		
---		---		---		3 hp		
---		---		---		3.45 hp		
---		---		---		AA04		
---		---		---		921 - 1228 rpm		
Wheel nominal diameter x width - in.			(1) 10 x 10	(1) 10 x 10	(1) 10 x 10	(1) 10 x 10	(1) 15 x 9	
<b>Filters</b>	Type		Disposable			Disposable		
	Number and size - in.		(4) 16 x 20 x 2			(4) 20 x 20 x 2		
<b>Electrical Characteristics - 60 Hz</b>			208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	208/230V, 460V & 575V 3 phase	

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1,2</sup> AHRI Certified to AHRI Standard <sup>1</sup> 210/240 or <sup>2</sup> 340/360: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>3</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

<sup>4</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.



### SPECIFICATIONS - STANDARD GAS HEAT - THREE PHASE MODELS

Model No.	036, 048, 060, 072, 074	036, 048, 060, 072, 074	090	036, 048, 060, 072, 074	090	048, 060, 072, 074	090	048, 060, 072, 074	090
Heat Input Type	Standard (1 Stage)	Medium (1 Stage)		Medium (2 Stage)		High (1 Stage)		High (2 Stage)	
Input Btuh	1st Stage 65,000	108,000		81,000		150,000		113,000	
	2nd Stage ---	---		108,000		---		150,000	
Output Btuh	1st Stage 52,000	86,000		65,000		120,000		90,000	
	2nd Stage ---	---		86,000		---		120,000	
Temperature Rise Range - °F	1st stage 15 - 45	30 - 70	15 - 45	25 - 55	10 - 40	45 - 75	25 - 55	30 - 60	15 - 45
	2nd Stage ---	---	---	30 - 70	15 - 45	---	---	45 - 75	25 - 55
<sup>1</sup> Thermal Efficiency	Standard	80%	80%	80%	80%	80%	80%	80%	80%
Gas Supply Connections	1/2 in. NPT								
Rec. Gas Supply Pressure - Nat./ LPG	7 in.w.g. / 11 in.w.g.								

<sup>1</sup> Thermal Efficiency at full input.

### SPECIFICATIONS - LOW NOX GAS HEAT - SINGLE AND THREE PHASE MODELS

Model No.	024, 030	036, 048, 060, 072, 074	036, 048, 060, 072, 074	090	036, 048, 060, 072, 074	090	048, 060, 072, 074	090	048, 060, 072, 074	090
Heat Input Type	Standard (1 Stage)	Medium (1 Stage)		Medium (2 Stage)		High (1 Stage)		High (2 Stage)		
Input Btuh	1st Stage 65,000	108,000		81,000		150,000		113,000		
	2nd Stage ---	---		108,000		---		150,000		
Output Btuh	1st Stage 52,000	87,000		66,000		121,000		92,000		
	2nd Stage ---	---		87,000		---		121,000		
Temperature Rise Range - °F	1st stage 35 - 65	15 - 45	30 - 70	15 - 45	25 - 55	10 - 40	45 - 75	25 - 55	30 - 60	15 - 45
	2nd Stage ---	---	---	---	30 - 70	15 - 45	---	---	45 - 75	25 - 55
<sup>1</sup> AFUE (single phase)	81%	81%	81%	---	81%	---	81%	---	81%	---
<sup>2</sup> Thermal Efficiency (three phase)	---	81%	81%	81%	81%	81%	81%	81%	81%	81%
Gas Supply Connections	1/2 in. NPT									
Rec. Gas Supply Pressure - Nat./ LPG	7 in.w.g. / 11 in.w.g.									

<sup>1</sup> Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations - 1 phase models only.

<sup>2</sup> Thermal Efficiency at full input.

### HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 2000 ft. above sea level without any modifications. At altitudes above 2000 ft. units must be derated to match information in the table shown. At altitudes above 4500 ft. unit must be derated 2% for each 1000 ft. above sea level.  
NOTE - This is the only permissible derate for these units.

Heat Input Type	Altitude Feet	Gas Manifold Pressure in. w.g.		Input Rate (Btuh)
		Natural Gas	LPG/ Propane	
Standard (1 stage)	2001 - 4500	3.0	9.0	60,000
Medium (1 stage)	2001 - 4500	3.0	9.0	100,000
Medium (2 stage)	2001 - 4500	3.0/1.7	9.0/5.1	100,000 / 75,000
High (1 stage)	2001 - 4500	3.0	9.0	139,000
High (2 stage)	2001 - 4500	3.0/1.7	9.0/5.1	139,000 / 104,000

## RATINGS - KGA

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 3 TON - KGA036S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	960	35.6	2.35	0.75	0.87	0.98	33.4	2.67	0.75	0.89	1	31.1	3.04	0.77	0.91	1	28.5	3.48	0.79	0.93	1
	1200	37.7	2.36	0.8	0.93	1	35.3	2.68	0.81	0.95	1	32.9	3.06	0.82	0.98	1	30.2	3.49	0.84	1	1
	1440	39.3	2.37	0.84	0.98	1	36.8	2.69	0.85	1	1	34.5	3.07	0.87	1	1	32	3.5	0.9	1	1
67°F	960	37.6	2.36	0.59	0.72	0.84	35.4	2.68	0.59	0.73	0.86	33.1	3.05	0.59	0.74	0.88	30.4	3.5	0.59	0.76	0.9
	1200	39.8	2.38	0.62	0.78	0.91	37.5	2.7	0.62	0.79	0.92	34.9	3.07	0.63	0.8	0.94	32.1	3.5	0.64	0.82	0.97
	1440	41.4	2.39	0.65	0.82	0.96	38.9	2.71	0.66	0.84	0.98	36.2	3.08	0.66	0.86	1	33.3	3.51	0.68	0.88	1
71°F	960	39.9	2.38	0.45	0.58	0.7	37.5	2.7	0.44	0.58	0.71	34.9	3.07	0.42	0.58	0.72	32.2	3.5	0.43	0.58	0.74
	1200	42	2.39	0.45	0.61	0.75	39.5	2.71	0.46	0.61	0.77	36.9	3.09	0.45	0.62	0.79	34	3.52	0.45	0.63	0.81
	1440	43.6	2.41	0.47	0.65	0.8	41	2.73	0.46	0.65	0.82	38.2	3.1	0.47	0.66	0.83	35.2	3.53	0.47	0.68	0.87

### 4 TON - KGA048S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1280	47.6	3.02	0.74	0.87	0.98	44.5	3.44	0.74	0.88	1	41.2	3.89	0.75	0.9	1	37.8	4.41	0.77	0.93	1
	1600	50.4	3.04	0.79	0.93	1	47.1	3.46	0.8	0.95	1	43.7	3.91	0.81	0.97	1	40	4.42	0.83	1	1
	1920	52.6	3.05	0.83	0.99	1	49.1	3.47	0.85	1	1	45.7	3.93	0.87	1	1	42.3	4.45	0.89	1	1
67°F	1280	50.6	3.04	0.58	0.72	0.84	47.2	3.45	0.58	0.72	0.85	43.9	3.91	0.57	0.73	0.87	40.3	4.44	0.57	0.74	0.9
	1600	53.5	3.06	0.61	0.77	0.9	50	3.48	0.61	0.78	0.92	46.4	3.94	0.62	0.8	0.95	42.5	4.45	0.62	0.81	0.98
	1920	55.6	3.07	0.64	0.82	0.96	51.9	3.5	0.65	0.83	0.98	47.9	3.95	0.66	0.85	1	44	4.47	0.67	0.88	1
71°F	1280	53.7	3.06	0.43	0.57	0.69	50.2	3.48	0.43	0.57	0.7	46.6	3.93	0.42	0.57	0.71	42.8	4.46	0.41	0.57	0.72
	1600	56.4	3.07	0.45	0.6	0.75	52.6	3.5	0.45	0.6	0.76	49	3.96	0.44	0.61	0.78	45	4.48	0.43	0.62	0.8
	1920	58.6	3.08	0.47	0.64	0.8	54.8	3.52	0.47	0.64	0.81	50.8	3.98	0.46	0.65	0.83	46.7	4.5	0.45	0.66	0.86

### 5 TON - KGA060S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1600	60.1	3.48	0.68	0.84	1	57	3.93	0.69	0.86	1	53.5	4.44	0.71	0.89	1	50	5.04	0.73	0.93	1
	2000	63.1	3.51	0.74	0.94	1	59.8	3.96	0.76	0.97	1	56	4.47	0.78	1	1	52.6	5.06	0.81	1	1
	2400	65.6	3.54	0.8	1	1	62.3	3.99	0.83	1	1	59.1	4.51	0.86	1	1	55.6	5.1	0.91	1	1
67°F	1600	63.9	3.52	0.54	0.66	0.79	60.5	3.97	0.54	0.67	0.82	57.1	4.48	0.55	0.69	0.85	53.2	5.07	0.56	0.71	0.89
	2000	66.8	3.55	0.57	0.72	0.9	63.1	4	0.58	0.73	0.93	59.2	4.51	0.58	0.75	0.97	55.1	5.1	0.59	0.79	1
	2400	68.9	3.58	0.6	0.78	0.99	65	4.02	0.61	0.8	1	61.1	4.54	0.63	0.84	1	56.8	5.12	0.64	0.88	1
71°F	1600	67.7	3.56	0.4	0.52	0.64	64.2	4.01	0.41	0.53	0.65	60.4	4.53	0.4	0.54	0.67	56.4	5.12	0.4	0.54	0.69
	2000	70.7	3.6	0.42	0.56	0.7	67	4.05	0.42	0.57	0.71	62.8	4.56	0.42	0.57	0.73	58.5	5.15	0.42	0.59	0.76
	2400	72.7	3.62	0.43	0.59	0.75	68.7	4.07	0.43	0.6	0.78	64.6	4.58	0.44	0.62	0.81	60	5.17	0.44	0.64	0.85

### 6 TON - KGA072S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	69.7	4.27	0.74	0.89	1	64.1	4.8	0.75	0.92	1	58.7	5.43	0.77	0.95	1	53	6.14	0.79	0.99	1
	2400	73.5	4.32	0.8	0.98	1	67.7	4.84	0.82	1	1	62.6	5.47	0.85	1	1	57.5	6.2	0.88	1	1
	2880	77.2	4.37	0.86	1	1	71.8	4.9	0.89	1	1	66.4	5.52	0.92	1	1	60.8	6.24	0.97	1	1
67°F	1920	74.6	4.33	0.56	0.71	0.86	68.8	4.85	0.57	0.73	0.88	63.1	5.48	0.58	0.75	0.92	57.3	6.2	0.58	0.77	0.95
	2400	78.3	4.39	0.61	0.78	0.95	72.2	4.9	0.62	0.8	0.98	66	5.51	0.62	0.82	1	60	6.23	0.64	0.86	1
	2880	80.9	4.42	0.64	0.84	1	74.6	4.93	0.66	0.87	1	68	5.54	0.67	0.9	1	62	6.26	0.69	0.95	1
71°F	1920	79.5	4.4	0.42	0.55	0.69	73.6	4.91	0.42	0.56	0.71	67.5	5.53	0.4	0.57	0.73	61.4	6.25	0.4	0.57	0.75
	2400	83.3	4.45	0.45	0.6	0.76	76.9	4.96	0.44	0.61	0.78	70.5	5.57	0.43	0.62	0.8	64.3	6.29	0.41	0.63	0.84
	2880	85.8	4.5	0.46	0.64	0.82	79.4	5.01	0.45	0.66	0.86	72.5	5.6	0.45	0.67	0.88	66.1	6.32	0.45	0.68	0.93

## RATINGS - KGA

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 7.5 TON - KGA090S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	2400	92.4	5.97	0.69	0.84	0.98	85.3	6.6	0.7	0.86	1	77.8	7.32	0.7	0.88	1	69.9	8.15	0.71	0.91	1
	3000	97.7	6.04	0.75	0.92	1	90.2	6.68	0.76	0.95	1	82.5	7.4	0.78	0.98	1	74.5	8.23	0.81	1	1
	3600	101.9	6.11	0.81	1	1	94.6	6.75	0.83	1	1	87.2	7.48	0.85	1	1	79.5	8.33	0.89	1	1
67°F	2400	99.4	6.07	0.54	0.67	0.81	91.8	6.7	0.53	0.68	0.83	84.2	7.43	0.53	0.68	0.85	75.9	8.26	0.52	0.7	0.88
	3000	104.5	6.15	0.57	0.73	0.89	96.8	6.78	0.58	0.74	0.91	88.7	7.51	0.57	0.76	0.95	79.9	8.34	0.58	0.79	0.99
	3600	108.5	6.21	0.61	0.79	0.97	100.2	6.84	0.62	0.81	0.99	92	7.57	0.62	0.84	1	82.7	8.39	0.62	0.87	1
71°F	2400	106.2	6.17	0.4	0.53	0.65	98.5	6.81	0.38	0.52	0.66	90.6	7.54	0.37	0.52	0.67	82.2	8.38	0.36	0.52	0.68
	3000	111.7	6.26	0.41	0.57	0.71	103.8	6.9	0.4	0.57	0.72	95.1	7.63	0.4	0.57	0.74	86.3	8.46	0.38	0.58	0.77
	3600	115.6	6.33	0.44	0.6	0.77	107.2	6.96	0.43	0.61	0.79	98.6	7.69	0.42	0.62	0.82	89	8.51	0.41	0.63	0.85

## RATINGS - KGB

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 2 TON - KGB024S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	640	23.2	1.31	0.69	0.84	0.99	21.7	1.49	0.7	0.86	1	20.1	1.72	0.71	0.89	1	18.4	1.97	0.73	0.92	1
	800	24.6	1.3	0.75	0.93	1	23.1	1.48	0.76	0.95	1	21.4	1.7	0.78	0.98	1	19.7	1.95	0.8	1	1
	960	25.8	1.29	0.8	1	1	24.3	1.47	0.82	1	1	22.7	1.69	0.85	1	1	21	1.94	0.88	1	1
67°F	640	24.5	1.3	0.54	0.67	0.81	23	1.48	0.54	0.68	0.82	21.4	1.71	0.54	0.69	0.85	19.7	1.96	0.54	0.71	0.88
	800	26.1	1.28	0.58	0.72	0.89	24.5	1.47	0.58	0.74	0.91	22.7	1.69	0.58	0.75	0.94	20.8	1.94	0.59	0.78	0.98
	960	27.2	1.27	0.61	0.78	0.96	25.5	1.45	0.61	0.8	0.99	23.7	1.68	0.62	0.82	1	21.6	1.93	0.63	0.86	1
71°F	640	25.7	1.29	0.41	0.53	0.65	24.2	1.47	0.4	0.53	0.66	22.6	1.7	0.39	0.53	0.67	20.8	1.95	0.38	0.54	0.68
	800	27.4	1.27	0.42	0.57	0.7	25.8	1.45	0.42	0.57	0.72	24	1.68	0.41	0.58	0.73	22.1	1.93	0.39	0.58	0.76
	960	28.6	1.25	0.44	0.6	0.76	26.9	1.44	0.43	0.61	0.77	25	1.66	0.43	0.61	0.8	22.9	1.91	0.43	0.63	0.83

### 2.5 TON - KGB030S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	800	29.2	1.66	0.7	0.85	1	28.1	1.9	0.71	0.87	1	26.3	2.21	0.73	0.9	1	24.6	2.69	0.74	0.93	1
	1000	30.7	1.66	0.76	0.95	1	29.5	1.9	0.77	0.97	1	27.7	2.21	0.79	1	1	26.1	2.69	0.81	1	1
	1200	32	1.66	0.82	1	1	30.9	1.91	0.83	1	1	29.2	2.22	0.86	1	1	27.5	2.69	0.9	1	1
67°F	800	30.9	1.66	0.55	0.68	0.82	29.7	1.91	0.55	0.69	0.83	27.9	2.22	0.56	0.7	0.86	26.2	2.69	0.56	0.72	0.89
	1000	32.3	1.67	0.59	0.74	0.92	31.1	1.91	0.59	0.75	0.93	29.2	2.22	0.6	0.77	0.96	27.3	2.68	0.61	0.79	0.99
	1200	33.3	1.67	0.6	0.8	1	32	1.92	0.62	0.81	1	30.1	2.22	0.63	0.84	1	28.2	2.7	0.65	0.87	1
71°F	800	32.5	1.67	0.41	0.54	0.66	31.3	1.91	0.41	0.54	0.67	29.5	2.22	0.41	0.55	0.68	27.7	2.69	0.41	0.56	0.7
	1000	33.9	1.67	0.44	0.58	0.73	32.6	1.92	0.43	0.58	0.73	30.7	2.23	0.43	0.59	0.75	28.8	2.69	0.43	0.59	0.77
	1200	34.8	1.68	0.44	0.61	0.78	33.5	1.92	0.44	0.6	0.8	31.5	2.23	0.44	0.63	0.83	29.7	2.69	0.44	0.64	0.85

### 3 TON - KGB036S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	960	36.5	2.01	0.69	0.85	1	34.3	2.29	0.7	0.87	1	32	2.63	0.71	0.89	1	29.5	3.05	0.72	0.92	1
	1200	38.6	2.02	0.75	0.94	1	36.3	2.3	0.77	0.97	1	33.9	2.63	0.78	1	1	31.5	3.05	0.8	1	1
	1440	40.4	2.03	0.82	1	1	38.2	2.3	0.83	1	1	36	2.63	0.86	1	1	33.6	3.04	0.89	1	1
67°F	960	39	2.02	0.54	0.67	0.81	36.8	2.3	0.54	0.68	0.83	34.4	2.63	0.54	0.69	0.85	31.8	3.04	0.54	0.7	0.88
	1200	41.1	2.03	0.57	0.73	0.9	38.8	2.31	0.58	0.74	0.93	36.3	2.63	0.58	0.76	0.96	33.6	3.04	0.59	0.78	0.99
	1440	42.7	2.04	0.61	0.79	0.99	40.2	2.31	0.62	0.81	1	37.5	2.64	0.62	0.83	1	34.9	3.05	0.63	0.86	1
71°F	960	41.4	2.03	0.4	0.53	0.65	39.1	2.31	0.4	0.53	0.65	36.7	2.63	0.38	0.53	0.67	34.1	3.04	0.38	0.53	0.68
	1200	43.7	2.05	0.42	0.56	0.71	41.3	2.32	0.41	0.57	0.72	38.7	2.64	0.41	0.57	0.74	36.1	3.04	0.4	0.58	0.75
	1440	45.3	2.06	0.43	0.6	0.77	42.8	2.33	0.43	0.61	0.79	40.1	2.65	0.43	0.61	0.81	37.3	3.04	0.42	0.63	0.83

## RATINGS - KGB

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 4 TON - KGB048S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1280	47.6	2.86	0.68	0.84	1	44.1	3.23	0.69	0.87	1	40.7	3.66	0.7	0.9	1	37.1	4.16	0.72	0.95	1
	1600	50.1	2.88	0.74	0.95	1	46.6	3.25	0.76	0.98	1	43.1	3.68	0.78	1	1	39.7	4.19	0.81	1	1
	1920	52.5	2.89	0.81	1	1	49.1	3.27	0.83	1	1	45.7	3.7	0.87	1	1	42.2	4.21	0.91	1	1
67°F	1280	50.9	2.88	0.53	0.66	0.8	47.3	3.26	0.53	0.67	0.83	43.8	3.69	0.53	0.68	0.86	40.1	4.19	0.53	0.7	0.9
	1600	53.6	2.89	0.56	0.72	0.91	49.7	3.27	0.57	0.73	0.94	46	3.71	0.57	0.76	0.98	42	4.21	0.58	0.79	1
	1920	55.4	2.9	0.6	0.78	1	51.4	3.29	0.6	0.81	1	47.5	3.72	0.61	0.84	1	43.3	4.22	0.63	0.88	1
71°F	1280	54.1	2.9	0.39	0.52	0.64	50.4	3.28	0.38	0.52	0.65	46.8	3.71	0.37	0.52	0.66	42.8	4.21	0.37	0.52	0.68
	1600	56.8	2.91	0.41	0.55	0.7	52.9	3.3	0.4	0.56	0.71	49.1	3.73	0.4	0.57	0.73	45	4.23	0.39	0.58	0.76
	1920	58.9	2.92	0.42	0.59	0.76	54.8	3.31	0.42	0.6	0.79	50.8	3.74	0.42	0.61	0.82	46.5	4.25	0.41	0.62	0.86

### 5 TON - KGB060S4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1600	60.1	3.41	0.68	0.84	1	56.8	3.86	0.7	0.86	1	53.1	4.39	0.71	0.89	1	48.9	5	0.73	0.93	1
	2000	63.5	3.44	0.75	0.95	1	59.9	3.88	0.76	0.97	1	55.9	4.41	0.78	1	1	51.9	5.02	0.81	1	1
	2400	66.4	3.45	0.8	1	1	63.1	3.91	0.83	1	1	59.5	4.44	0.86	1	1	55.3	5.07	0.9	1	1
67°F	1600	64.3	3.44	0.53	0.66	0.81	60.8	3.89	0.54	0.67	0.82	56.9	4.42	0.54	0.69	0.85	52.5	5.04	0.55	0.7	0.89
	2000	67.8	3.46	0.58	0.72	0.9	64	3.91	0.57	0.74	0.93	59.7	4.44	0.58	0.75	0.96	55.1	5.07	0.59	0.78	1
	2400	70.3	3.47	0.6	0.78	0.99	66.3	3.92	0.61	0.81	1	61.7	4.46	0.62	0.83	1	56.8	5.08	0.63	0.88	1
71°F	1600	68.8	3.46	0.4	0.52	0.64	65.2	3.92	0.4	0.53	0.65	61.1	4.45	0.39	0.53	0.66	56.3	5.08	0.38	0.54	0.68
	2000	72.5	3.48	0.41	0.57	0.7	68.4	3.94	0.41	0.56	0.72	63.8	4.47	0.41	0.57	0.73	58.7	5.1	0.41	0.58	0.75
	2400	74.7	3.49	0.42	0.59	0.76	70.5	3.95	0.43	0.6	0.78	66	4.49	0.43	0.61	0.81	60.7	5.12	0.42	0.63	0.85

### 6 TON - KGB072H4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	68.1	4.47	0.67	0.83	1	64.4	4.95	0.68	0.86	1	60.3	5.5	0.7	0.9	1	55.9	6.12	0.71	0.94	1
	2400	71.8	4.48	0.72	0.94	1	67.8	4.97	0.74	0.97	1	63.4	5.51	0.77	1	1	59.4	6.14	0.81	1	1
	2880	74.6	4.49	0.79	1	1	71	4.98	0.82	1	1	67.1	5.53	0.85	1	1	62.8	6.16	0.9	1	1
67°F	1920	72.4	4.48	0.52	0.64	0.78	68.7	4.97	0.53	0.65	0.81	64.7	5.52	0.54	0.67	0.84	60	6.15	0.55	0.69	0.89
	2400	76.3	4.5	0.56	0.7	0.89	72.2	4.99	0.56	0.71	0.92	67.3	5.53	0.57	0.74	0.96	62.7	6.17	0.59	0.77	1
	2880	78.8	4.51	0.58	0.76	0.98	74.6	5	0.59	0.79	1	69.7	5.55	0.6	0.82	1	64.7	6.18	0.62	0.87	1
71°F	1920	77.2	4.5	0.39	0.51	0.62	73.1	4.99	0.39	0.51	0.63	68.7	5.54	0.4	0.52	0.65	63.9	6.17	0.4	0.54	0.67
	2400	81	4.52	0.41	0.55	0.68	76.7	5.01	0.41	0.55	0.69	71.9	5.56	0.41	0.56	0.71	66.6	6.19	0.41	0.57	0.74
	2880	83.4	4.53	0.42	0.58	0.73	79	5.02	0.42	0.58	0.75	74.1	5.57	0.43	0.6	0.79	68.7	6.2	0.43	0.61	0.83



## RATINGS - KGB

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 6 TON - STANDARD EFFICIENCY KGB074S4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1200	53.3	2.3	0.68	0.81	0.92	51	2.62	0.69	0.82	0.94	48.3	2.99	0.7	0.83	0.96	45.6	3.41	0.71	0.85	0.98
	1600	57.8	2.29	0.74	0.88	1	55.2	2.61	0.75	0.9	1	52.5	2.98	0.77	0.92	1	49.3	3.4	0.78	0.95	1
	2000	61.2	2.28	0.8	0.96	1	58.2	2.6	0.81	0.98	1	55.3	2.98	0.83	1	1	52.5	3.4	0.84	1	1
67°F	1200	57.2	2.29	0.55	0.66	0.77	54.7	2.62	0.55	0.67	0.78	51.9	2.98	0.55	0.67	0.79	48.9	3.4	0.55	0.68	0.81
	1600	61.9	2.28	0.58	0.72	0.85	59.2	2.6	0.59	0.73	0.86	56.3	2.97	0.59	0.74	0.88	53	3.4	0.6	0.76	0.91
	2000	65.4	2.27	0.62	0.78	0.93	62.3	2.59	0.62	0.78	0.94	59.1	2.96	0.63	0.8	0.97	55.6	3.39	0.64	0.82	0.99
71°F	1200	61.2	2.28	0.42	0.53	0.63	58.6	2.61	0.42	0.53	0.64	55.8	2.97	0.42	0.53	0.64	52.6	3.4	0.41	0.53	0.65
	1600	66.3	2.26	0.44	0.57	0.69	63.3	2.59	0.44	0.57	0.7	60.2	2.96	0.44	0.58	0.71	56.7	3.39	0.44	0.59	0.73
	2000	69.6	2.25	0.46	0.61	0.75	66.5	2.58	0.46	0.61	0.76	63.1	2.95	0.45	0.61	0.77	59.6	3.38	0.46	0.63	0.8

### 6 TON - STANDARD EFFICIENCY KGB074S4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	68.6	4.18	0.73	0.88	1	64.9	4.71	0.75	0.9	1	60.9	5.32	0.77	0.93	1	56.8	6.02	0.79	0.96	1
	2400	72.2	4.21	0.79	0.96	1	68.1	4.74	0.81	0.99	1	63.8	5.35	0.83	1	1	60	6.05	0.86	1	1
	2880	75.2	4.24	0.85	1	1	71.6	4.78	0.87	1	1	67.6	5.39	0.9	1	1	63.4	6.09	0.94	1	1
67°F	1920	73	4.22	0.58	0.71	0.85	69	4.75	0.58	0.73	0.87	64.8	5.36	0.59	0.74	0.89	60.4	6.05	0.6	0.77	0.93
	2400	76.7	4.25	0.62	0.77	0.93	72.4	4.79	0.62	0.79	0.95	67.9	5.4	0.63	0.81	0.98	63	6.08	0.65	0.84	1
	2880	79.1	4.28	0.64	0.83	0.99	74.8	4.82	0.66	0.85	1	69.9	5.42	0.67	0.88	1	65	6.1	0.69	0.91	1
71°F	1920	77.6	4.26	0.44	0.56	0.69	73.5	4.8	0.43	0.57	0.7	69.1	5.41	0.43	0.58	0.72	64.2	6.1	0.43	0.59	0.74
	2400	81.1	4.3	0.45	0.6	0.75	76.8	4.84	0.45	0.61	0.77	72	5.45	0.45	0.62	0.79	67.1	6.13	0.45	0.64	0.81
	2880	83.7	4.33	0.47	0.64	0.8	79.2	4.87	0.46	0.65	0.83	74.2	5.47	0.48	0.66	0.85	69.2	6.15	0.48	0.68	0.89

### 6 TON - HIGH EFFICIENCY KGB074H4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1200	53.3	2.27	0.68	0.81	0.92	51	2.59	0.69	0.82	0.94	48.3	2.95	0.7	0.83	0.96	45.6	3.36	0.71	0.85	0.98
	1600	57.8	2.26	0.74	0.88	1	55.2	2.58	0.75	0.9	1	52.5	2.94	0.77	0.92	1	49.3	3.36	0.78	0.95	1
	2000	61.2	2.25	0.8	0.96	1	58.2	2.57	0.81	0.98	1	55.3	2.94	0.83	1	1	52.5	3.35	0.84	1	1
67°F	1200	57.2	2.26	0.55	0.66	0.77	54.7	2.58	0.55	0.67	0.78	51.9	2.94	0.55	0.67	0.79	48.9	3.36	0.55	0.68	0.81
	1600	61.9	2.25	0.58	0.72	0.85	59.2	2.57	0.59	0.73	0.86	56.3	2.93	0.59	0.74	0.88	53	3.35	0.6	0.76	0.91
	2000	65.4	2.24	0.62	0.78	0.93	62.3	2.56	0.62	0.78	0.94	59.2	2.93	0.63	0.8	0.97	55.6	3.34	0.64	0.82	0.99
71°F	1200	61.2	2.25	0.43	0.53	0.63	58.6	2.57	0.42	0.53	0.64	55.8	2.93	0.42	0.53	0.64	52.6	3.35	0.41	0.53	0.65
	1600	66.3	2.23	0.44	0.57	0.69	63.3	2.56	0.44	0.57	0.7	60.2	2.92	0.44	0.58	0.71	56.7	3.34	0.44	0.59	0.73
	2000	69.6	2.22	0.45	0.61	0.75	66.5	2.54	0.46	0.61	0.76	63.1	2.91	0.45	0.62	0.77	59.6	3.33	0.46	0.63	0.8

### 6 TON - HIGH EFFICIENCY KGB074H4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	1920	68.6	4.12	0.73	0.88	1	64.9	4.65	0.75	0.9	1	60.9	5.25	0.77	0.93	1	56.6	5.94	0.79	0.96	1
	2400	72.2	4.16	0.79	0.96	1	68.1	4.68	0.81	0.99	1	63.9	5.28	0.83	1	1	60	5.97	0.86	1	1
	2880	75.2	4.18	0.85	1	1	71.6	4.72	0.87	1	1	67.6	5.32	0.9	1	1	63.4	6.01	0.94	1	1
67°F	1920	73	4.16	0.57	0.71	0.85	69	4.69	0.59	0.73	0.87	64.8	5.29	0.59	0.74	0.89	60.4	5.97	0.6	0.77	0.93
	2400	76.7	4.2	0.62	0.77	0.93	72.4	4.73	0.62	0.79	0.95	67.9	5.32	0.63	0.81	0.98	63	6	0.64	0.84	1
	2880	79.1	4.22	0.64	0.83	0.99	74.8	4.75	0.66	0.85	1	69.9	5.34	0.67	0.88	1	65	6.02	0.69	0.91	1
71°F	1920	77.6	4.21	0.44	0.56	0.69	73.5	4.74	0.43	0.57	0.7	69.1	5.34	0.43	0.58	0.72	64.2	6.02	0.43	0.59	0.74
	2400	81.1	4.24	0.45	0.6	0.75	76.8	4.77	0.45	0.61	0.77	72	5.37	0.45	0.62	0.79	67.1	6.05	0.44	0.64	0.81
	2880	83.7	4.27	0.47	0.64	0.8	79.3	4.8	0.46	0.65	0.83	74.2	5.4	0.48	0.66	0.85	69.2	6.07	0.48	0.68	0.89

## BLOWER DATA - DIRECT DRIVE - KGB024

**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, wet coil, etc.) See page 41.

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 41.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds					
	208 VOLTS			230 VOLTS		
	High	Medium	Low	High	Medium	Low
<b>2 Ton Standard Efficiency (Downflow)</b>			<b>KGB024S</b>			
0.0	1275	979	878	1453	1140	926
0.1	1262	960	834	1440	1124	912
0.2	1243	938	790	1420	1096	884
0.3	1218	909	746	1396	1065	853
0.4	1186	866	710	1352	1033	822
0.5	1137	838	657	1316	986	774
0.6	1104	795	604	1263	954	727
0.7	1055	752	534	1210	906	680
0.8	990	694	463	1158	859	632
0.9	925	637	392	1070	764	538
1.0	794	523	290	928	669	477
<b>2 Ton Standard Efficiency (Horizontal)</b>			<b>KGB024S</b>			
0.0	1204	937	818	1370	1098	879
0.1	1186	913	788	1352	1066	864
0.2	1164	882	748	1327	1034	839
0.3	1137	860	710	1300	1001	809
0.4	1104	818	670	1263	968	768
0.5	1070	775	612	1227	925	728
0.6	1031	733	554	1190	881	688
0.7	991	690	500	1136	816	628
0.8	937	626	432	1081	751	557
0.9	804	566	362	1009	665	492
1.0	678	497	287	900	565	416

## BLOWER DATA - DIRECT DRIVE - KGB030

**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, wet coil, etc.) See page 41.

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 41.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds					
	208 VOLTS			230 VOLTS		
	High	Medium	Low	High	Medium	Low
<b>2.5 Ton Standard Efficiency (Downflow)</b>			<b>KGB030S</b>			
0.0	1211	949	852	1365	1097	916
0.1	1251	946	826	1422	1099	908
0.2	1241	952	794	1419	1112	893
0.3	1234	915	749	1419	1074	861
0.4	1213	880	702	1402	1038	824
0.5	1178	846	661	1366	1003	795
0.6	1118	790	585	1302	942	720
0.7	1054	751	518	1231	900	655
0.8	964	675	460	1130	815	600
0.9	882	626	368	1037	762	501
1.0	729	494	286	859	606	412
<b>2.5 Ton Standard Efficiency (Horizontal)</b>			<b>KGB030S</b>			
0.0	1163	930	815	1312	1075	875
0.1	1173	912	783	1333	1060	861
0.2	1169	888	746	1337	1037	839
0.3	1152	858	704	1325	1007	809
0.4	1122	822	657	1297	969	772
0.5	1079	779	606	1252	923	728
0.6	1023	730	549	1191	870	676
0.7	953	674	488	1114	808	617
0.8	871	613	422	1020	739	550
0.9	775	545	350	911	662	476
1.0	666	470	274	785	578	395

## BLOWER DATA - DIRECT DRIVE - KGA/KGB036, KGA/KGB048

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, wet coil, etc.) See page 41.

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 41.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds								
	208 VOLTS			230 VOLTS			460/575 VOLTS		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
<b>3 and 4 Ton Standard Efficiency (Downflow)</b>					<b>KGA/KGB036S and KGA/KGB048S</b>				
0.0	1873	1561	1123	2094	1783	1321	2064	1727	1216
0.1	1993	1601	1148	2168	1797	1338	2105	1744	1229
0.2	1913	1601	1137	2098	1803	1308	2050	1694	1198
0.3	1858	1527	1078	2036	1725	1261	1987	1638	1167
0.4	1801	1496	1046	1973	1679	1219	1905	1598	1148
0.5	1763	1467	987	1910	1647	1177	1862	1559	1108
0.6	1709	1414	897	1830	1560	1080	1781	1509	1057
0.7	1617	1368	806	1727	1519	986	1698	1449	982
0.8	1472	1269	730	1604	1419	918	1614	1389	920
0.9	1359	1162	487	1478	1363	706	1488	1346	792
1.0	961	922	370	1093	1083	590	1167	1099	703
<b>3 and 4 Ton Standard Efficiency (Horizontal)</b>					<b>KGA/KGB036S and KGA/KGB048S</b>				
0.0	1799	1530	1073	2012	1747	1263	2015	1756	1251
0.1	1868	1544	1088	2032	1733	1268	2071	1760	1279
0.2	1802	1494	1068	1976	1682	1228	2014	1700	1226
0.3	1735	1432	1014	1900	1618	1185	1937	1634	1187
0.4	1666	1397	980	1825	1568	1142	1878	1597	1174
0.5	1615	1350	904	1750	1516	1078	1801	1558	1124
0.6	1564	1305	842	1675	1440	1014	1743	1479	1060
0.7	1462	1228	758	1562	1364	928	1664	1415	982
0.8	1330	1151	670	1449	1287	842	1512	1335	865
0.9	1194	1011	464	1298	1185	671	1393	1297	733
1.0	878	878	355	998	1032	565	1060	1063	618

## BLOWER DATA - DIRECT DRIVE - KGA060

**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, wet coil, etc.) See page 41.

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 41.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds					
	208 VOLTS		230 VOLTS		460/575 VOLTS	
	High	Low	High	Low	High	Low
<b>5 Ton Standard Efficiency (Downflow)</b>						<b>KGA060S</b>
0.0	2200	1649	2411	1957	2241	1755
0.1	2256	1669	2417	2002	2221	1742
0.2	2202	1739	2396	1985	2193	1747
0.3	2170	1705	2328	1972	2144	1725
0.4	2158	1689	2293	1959	2104	1695
0.5	2130	1676	2279	1930	2086	1678
0.6	2056	1662	2158	1900	2008	1652
0.7	2032	1657	2089	1857	1975	1610
0.8	1963	1591	2077	1796	1941	1586
0.9	1887	1597	1876	1746	1855	1555
1.0	1695	1400	1746	1601	1778	1486
<b>5 Ton Standard Efficiency (Horizontal)</b>						<b>KGA060S</b>
0.0	2114	1615	2305	1880	2308	1890
0.1	2115	1610	2290	1876	2334	1906
0.2	2074	1622	2249	1870	2292	1890
0.3	2025	1599	2188	1841	2230	1859
0.4	1996	1577	2148	1812	2210	1846
0.5	1952	1542	2087	1768	2148	1817
0.6	1882	1534	2026	1739	2108	1786
0.7	1838	1488	1966	1680	2094	1743
0.8	1773	1443	1905	1622	1988	1682
0.9	1657	1389	1784	1534	1915	1679
1.0	1548	1335	1672	1462	1853	1506

## BLOWER DATA - DIRECT DRIVE - KGB060

**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, wet coil, etc.) See page 41.

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 41.

External Static Pressure (in. w.g.)	Air Volume (cfm) at Various Blower Speeds					
	208 VOLTS		230 VOLTS		460/575 VOLTS	
	High	Low	High	Low	High	Low
<b>5 Ton Standard Efficiency (Downflow)</b>						<b>KGB060S</b>
0.0	1940	1581	2131	1788	2131	1788
0.1	1929	1566	2107	1784	2107	1784
0.2	1906	1552	2074	1774	2074	1774
0.3	1872	1546	2036	1752	2036	1752
0.4	1836	1526	1998	1708	1998	1708
0.5	1802	1486	1960	1679	1960	1679
0.6	1749	1447	1904	1635	1904	1635
0.7	1714	1407	1847	1576	1847	1576
0.8	1644	1347	1771	1518	1771	1518
0.9	1574	1245	1658	1430	1658	1430
1.0	1338	---	1506	---	1506	---
<b>5 Ton Standard Efficiency (Horizontal)</b>						<b>KGB060S</b>
0.0	1930	1575	2143	1764	2143	1764
0.1	1920	1573	2115	1761	2115	1761
0.2	1910	1576	2088	1751	2088	1751
0.3	1870	1552	2055	1746	2055	1746
0.4	1840	1524	2023	1704	2023	1704
0.5	1790	1495	1979	1675	1979	1675
0.6	1739	1466	1925	1633	1925	1633
0.7	1679	1428	1860	1590	1860	1590
0.8	1639	1371	1775	1534	1775	1534
0.9	1559	1270	1670	1421	1670	1421
1.0	1438	---	1539	1285	1539	1285



## BLOWER DATA - BELT DRIVE - KGA/KGB036

**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished						Kit A01									
900	493	0.11	564	0.15	637	0.19	711	0.22	783	0.24	851	0.26	910	0.29	961	0.32
1000	517	0.14	588	0.18	660	0.22	733	0.24	804	0.26	868	0.29	924	0.32	974	0.35
1100	544	0.17	614	0.21	685	0.25	757	0.27	826	0.29	887	0.32	940	0.36	987	0.38
1200	574	0.2	643	0.24	712	0.28	782	0.31	849	0.33	906	0.36	956	0.39	1001	0.42
1300	613	0.23	679	0.28	745	0.31	811	0.34	873	0.36	926	0.40	973	0.43	1016	0.46
1400	662	0.26	722	0.30	781	0.34	841	0.37	897	0.41	944	0.44	989	0.48	1032	0.51
1500	710	0.29	763	0.33	816	0.38	869	0.41	919	0.45	963	0.49	1006	0.53	1049	0.56

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A01			Kit A05												
900	1008	0.34	1056	0.36	1104	0.39	1149	0.41	1190	0.44	1229	0.46	1267	0.49	1305	0.52
1000	1020	0.37	1067	0.40	1115	0.42	1159	0.45	1200	0.48	1239	0.51	1277	0.54	1314	0.57
1100	1032	0.41	1078	0.43	1124	0.46	1168	0.49	1210	0.52	1249	0.55	1286	0.58	1323	0.62
1200	1045	0.45	1090	0.47	1135	0.50	1178	0.53	1220	0.57	1259	0.60	1296	0.64	1332	0.67
1300	1060	0.49	1104	0.51	1148	0.55	1190	0.58	1230	0.62	1269	0.65	1306	0.69	1342	0.72
1400	1075	0.53	1119	0.56	1162	0.60	1203	0.63	1242	0.67	1280	0.71	1317	0.75	1352	0.78
1500	1093	0.58	1136	0.61	1177	0.65	1217	0.69	1255	0.73	1292	0.77	1328	0.80	1364	0.84

### HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished						Kit A01									
900	465	0.09	531	0.14	600	0.17	670	0.20	740	0.22	808	0.24	869	0.27	925	0.30
1000	483	0.12	549	0.16	617	0.20	687	0.22	756	0.24	822	0.26	881	0.29	935	0.33
1100	504	0.14	570	0.19	637	0.22	706	0.25	773	0.27	837	0.29	894	0.32	946	0.36
1200	527	0.17	592	0.22	658	0.25	726	0.28	792	0.30	854	0.32	908	0.36	957	0.39
1300	552	0.20	617	0.25	682	0.29	748	0.31	812	0.33	871	0.36	923	0.40	970	0.43
1400	580	0.24	644	0.28	708	0.32	773	0.35	834	0.37	890	0.40	938	0.44	984	0.48
1500	611	0.28	674	0.32	736	0.35	799	0.38	857	0.41	908	0.44	954	0.49	998	0.52

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A01			Kit A05												
900	977	0.33	1028	0.36	1079	0.39	1127	0.42	1169	0.45	1208	0.48	1246	0.51	1282	0.54
1000	985	0.36	1036	0.39	1087	0.42	1135	0.45	1177	0.48	1216	0.52	1253	0.55	1290	0.58
1100	995	0.39	1044	0.42	1093	0.45	1140	0.49	1183	0.52	1223	0.56	1261	0.59	1297	0.62
1200	1005	0.43	1053	0.46	1100	0.49	1146	0.53	1190	0.56	1230	0.60	1268	0.63	1304	0.67
1300	1016	0.47	1063	0.50	1109	0.53	1154	0.57	1197	0.61	1237	0.64	1275	0.68	1311	0.72
1400	1029	0.51	1074	0.54	1120	0.58	1164	0.61	1205	0.65	1245	0.69	1282	0.73	1318	0.77
1500	1042	0.56	1087	0.59	1132	0.62	1174	0.66	1215	0.71	1253	0.75	1290	0.78	1326	0.82

## BLOWER DATA - BELT DRIVE - KGA/KGB048

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished						Kit A02									
1200	574	0.20	644	0.24	713	0.28	784	0.31	850	0.33	906	0.36	953	0.39	998	0.42
1300	608	0.24	677	0.28	744	0.31	813	0.34	874	0.37	925	0.40	969	0.43	1014	0.46
1400	645	0.28	712	0.31	778	0.35	842	0.38	898	0.41	944	0.44	986	0.48	1030	0.51
1500	684	0.31	749	0.35	811	0.38	871	0.42	921	0.45	963	0.49	1004	0.53	1048	0.56
1600	723	0.35	785	0.39	844	0.43	898	0.46	943	0.50	983	0.54	1024	0.58	1067	0.61
1700	761	0.40	819	0.44	875	0.48	924	0.52	965	0.56	1004	0.60	1045	0.63	1089	0.66
1800	798	0.45	853	0.49	905	0.54	950	0.58	990	0.62	1028	0.66	1069	0.69	1112	0.72
1900	834	0.51	885	0.55	934	0.60	977	0.64	1015	0.68	1054	0.72	1095	0.75	1137	0.79
2000	869	0.57	917	0.62	962	0.67	1004	0.71	1042	0.75	1081	0.78	1121	0.82	1162	0.86

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A02				Kit A06											
1200	1043	0.44	1090	0.47	1135	0.50	1179	0.53	1220	0.57	1259	0.60	1297	0.64	1333	0.67
1300	1058	0.49	1104	0.51	1148	0.55	1190	0.58	1231	0.62	1269	0.65	1306	0.69	1342	0.72
1400	1074	0.53	1119	0.56	1162	0.59	1203	0.63	1242	0.67	1280	0.71	1317	0.74	1352	0.78
1500	1092	0.58	1136	0.61	1177	0.65	1217	0.69	1255	0.73	1292	0.76	1328	0.80	1364	0.84
1600	1112	0.63	1154	0.67	1193	0.71	1232	0.75	1269	0.79	1306	0.83	1341	0.87	1377	0.91
1700	1132	0.69	1173	0.73	1211	0.77	1248	0.81	1285	0.86	1321	0.90	1356	0.94	1391	0.98
1800	1154	0.76	1194	0.80	1230	0.85	1266	0.89	1302	0.93	1338	0.98	1373	1.02	1408	1.06
1900	1178	0.83	1215	0.88	1250	0.93	1286	0.98	1321	1.02	1356	1.06	1391	1.10	1426	1.14
2000	1201	0.91	1237	0.97	1271	1.02	1307	1.07	1342	1.11	1376	1.15	1411	1.19	1446	1.23

### HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished						Kit A02									
1200	540	0.18	606	0.22	673	0.26	748	0.29	816	0.30	870	0.33	914	0.37	961	0.40
1300	568	0.21	634	0.26	699	0.29	771	0.32	835	0.34	886	0.37	929	0.41	975	0.44
1400	599	0.25	664	0.29	728	0.33	795	0.35	855	0.38	903	0.41	946	0.45	991	0.49
1500	632	0.29	696	0.33	758	0.36	821	0.39	877	0.42	922	0.46	963	0.50	1008	0.54
1600	667	0.33	729	0.36	789	0.40	848	0.43	898	0.46	941	0.51	982	0.55	1026	0.59
1700	702	0.36	761	0.40	819	0.44	873	0.48	920	0.52	960	0.56	1001	0.61	1044	0.64
1800	737	0.41	794	0.45	848	0.49	898	0.53	941	0.58	981	0.62	1021	0.66	1064	0.70
1900	771	0.46	825	0.50	877	0.54	923	0.59	964	0.64	1002	0.68	1043	0.72	1085	0.76
2000	805	0.51	857	0.56	905	0.61	948	0.66	987	0.71	1025	0.75	1065	0.79	1107	0.82

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A02				Kit A06											
1200	1010	0.43	1061	0.46	1110	0.50	1156	0.53	1199	0.57	1239	0.61	1276	0.64	1312	0.68
1300	1024	0.47	1073	0.50	1120	0.54	1165	0.58	1207	0.62	1246	0.65	1284	0.69	1320	0.73
1400	1038	0.52	1086	0.55	1131	0.59	1175	0.62	1216	0.66	1255	0.70	1292	0.74	1328	0.78
1500	1054	0.57	1100	0.60	1144	0.64	1186	0.68	1226	0.72	1264	0.75	1301	0.79	1336	0.83
1600	1071	0.62	1116	0.65	1158	0.69	1198	0.73	1237	0.77	1274	0.81	1310	0.85	1345	0.89
1700	1089	0.67	1132	0.71	1172	0.75	1211	0.79	1249	0.83	1285	0.87	1321	0.91	1355	0.95
1800	1108	0.73	1149	0.77	1188	0.81	1225	0.85	1262	0.90	1298	0.94	1332	0.98	1366	1.01
1900	1128	0.79	1167	0.84	1204	0.88	1241	0.92	1276	0.97	1311	1.01	1345	1.05	1379	1.09
2000	1148	0.86	1186	0.91	1221	0.96	1257	1.00	1292	1.05	1326	1.09	1359	1.13	1393	1.17

## BLOWER DATA - BELT DRIVE - KGA060

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished				Kit A03											
1600	745	0.36	805	0.40	862	0.44	913	0.48	956	0.52	996	0.55	1037	0.59	1081	0.62
1700	783	0.41	840	0.45	893	0.49	940	0.53	980	0.57	1019	0.61	1061	0.64	1104	0.67
1800	820	0.47	873	0.51	923	0.55	967	0.60	1006	0.63	1045	0.67	1086	0.70	1129	0.73
1900	856	0.52	906	0.57	953	0.62	994	0.66	1032	0.70	1071	0.73	1112	0.76	1154	0.80
2000	891	0.59	937	0.64	982	0.69	1022	0.73	1060	0.76	1099	0.80	1140	0.84	1180	0.88
2100	924	0.66	968	0.71	1011	0.75	1051	0.79	1089	0.83	1128	0.87	1167	0.92	1206	0.97
2200	956	0.74	999	0.78	1041	0.83	1080	0.87	1119	0.91	1157	0.96	1196	1.02	1233	1.08
2300	990	0.81	1032	0.86	1072	0.91	1111	0.95	1149	1.00	1187	1.06	1225	1.13	1261	1.19
2400	1025	0.90	1066	0.95	1105	1.00	1143	1.05	1181	1.11	1218	1.17	1255	1.24	1290	1.30

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A03						Kit A07									
1600	1125	0.64	1167	0.68	1206	0.72	1244	0.76	1281	0.80	1317	0.84	1353	0.88	1388	0.92
1700	1147	0.70	1187	0.75	1224	0.79	1261	0.83	1298	0.87	1333	0.91	1369	0.95	1404	0.99
1800	1170	0.77	1208	0.82	1244	0.87	1280	0.91	1316	0.95	1351	0.99	1386	1.03	1422	1.07
1900	1194	0.85	1230	0.90	1265	0.95	1301	1.00	1336	1.04	1371	1.08	1406	1.12	1441	1.16
2000	1218	0.94	1253	1.00	1287	1.05	1323	1.09	1358	1.14	1392	1.17	1427	1.21	1463	1.25
2100	1243	1.03	1277	1.09	1311	1.15	1346	1.19	1381	1.23	1415	1.27	1450	1.31	1486	1.34
2200	1268	1.14	1302	1.20	1336	1.25	1371	1.29	1405	1.33	1439	1.37	1474	1.40	1511	1.44
2300	1295	1.25	1328	1.30	1362	1.35	1397	1.39	1431	1.43	1465	1.47	1500	1.50	1537	1.54
2400	1324	1.36	1356	1.41	1390	1.46	1424	1.50	1458	1.53	1492	1.57	1527	1.61	1563	1.64

### HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished				Kit A03											
1600	690	0.33	751	0.37	810	0.40	865	0.44	912	0.48	955	0.52	997	0.56	1041	0.60
1700	725	0.38	784	0.41	839	0.45	891	0.49	935	0.53	975	0.58	1017	0.62	1060	0.65
1800	761	0.42	816	0.46	868	0.50	916	0.55	957	0.59	997	0.64	1038	0.68	1081	0.71
1900	795	0.48	848	0.52	897	0.56	942	0.61	981	0.66	1020	0.70	1060	0.74	1103	0.77
2000	830	0.53	879	0.58	926	0.63	968	0.68	1006	0.73	1044	0.77	1084	0.80	1126	0.84
2100	863	0.60	910	0.65	954	0.70	994	0.75	1032	0.80	1070	0.83	1110	0.87	1150	0.91
2200	895	0.67	939	0.73	982	0.78	1021	0.83	1058	0.87	1096	0.91	1135	0.95	1174	1.00
2300	926	0.75	969	0.81	1009	0.86	1048	0.90	1085	0.94	1122	0.99	1160	1.04	1197	1.09
2400	957	0.84	998	0.89	1038	0.94	1076	0.98	1112	1.03	1149	1.08	1185	1.14	1221	1.20

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A03						Kit A07									
1600	1086	0.63	1129	0.66	1171	0.70	1211	0.74	1249	0.78	1286	0.82	1321	0.86	1356	0.90
1700	1104	0.68	1147	0.72	1186	0.76	1225	0.80	1262	0.84	1298	0.88	1333	0.92	1367	0.96
1800	1124	0.74	1165	0.79	1202	0.83	1240	0.87	1276	0.91	1311	0.95	1345	0.99	1380	1.03
1900	1145	0.81	1183	0.85	1220	0.90	1256	0.94	1291	0.99	1326	1.03	1360	1.07	1393	1.10
2000	1167	0.88	1203	0.93	1237	0.98	1273	1.03	1307	1.07	1341	1.11	1375	1.15	1408	1.18
2100	1188	0.96	1222	1.02	1256	1.07	1291	1.12	1324	1.16	1358	1.20	1391	1.23	1424	1.27
2200	1210	1.05	1243	1.11	1275	1.17	1309	1.21	1343	1.25	1376	1.29	1409	1.33	1442	1.36
2300	1232	1.16	1263	1.22	1295	1.27	1329	1.31	1362	1.35	1395	1.39	1428	1.42	1462	1.45
2400	1254	1.26	1284	1.32	1317	1.37	1350	1.41	1383	1.45	1415	1.48	1448	1.52	1483	1.55

## BLOWER DATA - BELT DRIVE - KGB060

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished						Kit A03									
1600	720	0.28	769	0.33	819	0.37	871	0.41	926	0.44	975	0.47	1016	0.51	1054	0.55
1700	779	0.30	822	0.35	864	0.39	908	0.44	953	0.48	995	0.52	1034	0.57	1072	0.61
1800	828	0.34	864	0.39	901	0.43	938	0.48	977	0.53	1015	0.58	1053	0.63	1091	0.67
1900	858	0.41	892	0.45	927	0.50	962	0.55	999	0.60	1036	0.65	1074	0.69	1112	0.73
2000	879	0.47	913	0.52	948	0.56	984	0.61	1020	0.67	1058	0.72	1096	0.76	1134	0.80
2100	900	0.53	935	0.58	970	0.63	1007	0.69	1044	0.74	1081	0.79	1119	0.84	1157	0.88
2200	922	0.60	958	0.65	994	0.71	1031	0.76	1068	0.82	1106	0.87	1143	0.91	1180	0.95
2300	947	0.67	983	0.73	1020	0.79	1057	0.85	1094	0.90	1131	0.95	1168	1.00	1205	1.03
2400	974	0.76	1010	0.82	1047	0.88	1084	0.94	1120	0.99	1157	1.04	1193	1.08	1230	1.12

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A03								Kit A07							
1600	1093	0.60	1133	0.63	1173	0.67	1214	0.70	1253	0.73	1288	0.77	1318	0.81	1351	0.85
1700	1111	0.65	1150	0.69	1190	0.72	1230	0.76	1268	0.79	1301	0.83	1331	0.87	1363	0.92
1800	1130	0.71	1169	0.75	1208	0.78	1247	0.82	1285	0.86	1317	0.90	1345	0.94	1377	0.98
1900	1150	0.77	1188	0.81	1227	0.85	1267	0.88	1303	0.92	1333	0.97	1361	1.02	1392	1.06
2000	1172	0.84	1210	0.88	1248	0.92	1286	0.96	1321	1.00	1350	1.05	1377	1.10	1409	1.14
2100	1195	0.91	1233	0.95	1269	1.00	1306	1.04	1339	1.09	1367	1.14	1395	1.19	1426	1.23
2200	1218	0.99	1255	1.03	1290	1.09	1324	1.14	1356	1.19	1385	1.24	1413	1.28	1444	1.32
2300	1242	1.07	1277	1.13	1310	1.20	1343	1.26	1374	1.30	1403	1.34	1432	1.38	1464	1.42
2400	1267	1.16	1300	1.23	1332	1.31	1364	1.37	1394	1.41	1423	1.45	1453	1.48	1484	1.53

### HORIZONTAL

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished								Kit A03							
1600	654	0.28	712	0.32	769	0.36	825	0.39	879	0.43	933	0.47	982	0.50	1024	0.54
1700	703	0.31	756	0.35	807	0.39	858	0.43	906	0.47	955	0.51	999	0.55	1039	0.59
1800	752	0.34	798	0.38	844	0.43	889	0.48	933	0.52	977	0.57	1017	0.61	1056	0.65
1900	796	0.38	837	0.43	878	0.48	918	0.53	958	0.58	997	0.62	1036	0.67	1074	0.71
2000	833	0.43	870	0.48	907	0.54	943	0.59	980	0.64	1018	0.69	1055	0.73	1093	0.77
2100	864	0.50	897	0.55	931	0.60	966	0.65	1002	0.71	1038	0.76	1075	0.80	1113	0.83
2200	887	0.57	920	0.62	953	0.67	988	0.73	1024	0.78	1060	0.83	1097	0.87	1135	0.90
2300	909	0.64	942	0.70	976	0.75	1011	0.81	1046	0.86	1083	0.91	1120	0.95	1157	0.98
2400	931	0.72	965	0.78	999	0.83	1035	0.89	1071	0.94	1108	0.99	1144	1.03	1181	1.07

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A03								Kit A07							
1600	1063	0.58	1101	0.61	1141	0.64	1181	0.67	1222	0.70	1261	0.73	1298	0.77	1333	0.81
1700	1078	0.63	1117	0.66	1156	0.69	1196	0.72	1235	0.75	1273	0.79	1309	0.83	1344	0.87
1800	1094	0.68	1133	0.72	1172	0.75	1211	0.78	1250	0.81	1287	0.85	1322	0.90	1355	0.94
1900	1112	0.74	1151	0.77	1190	0.81	1228	0.84	1265	0.88	1301	0.92	1335	0.97	1367	1.01
2000	1131	0.80	1170	0.83	1208	0.87	1245	0.91	1281	0.96	1316	1.00	1349	1.04	1380	1.09
2100	1151	0.87	1189	0.90	1227	0.94	1263	0.99	1298	1.04	1331	1.08	1363	1.13	1394	1.17
2200	1173	0.94	1210	0.98	1246	1.02	1281	1.07	1315	1.12	1347	1.17	1379	1.22	1409	1.26
2300	1195	1.02	1231	1.06	1266	1.11	1300	1.16	1333	1.22	1364	1.27	1395	1.32	1424	1.36
2400	1217	1.10	1252	1.15	1286	1.20	1319	1.26	1351	1.32	1382	1.38	1411	1.43	1440	1.48

## BLOWER DATA - BELT DRIVE - KGA072S/KGB074S - DOWNFLOW

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished								Kit A04							
1900	857	0.41	892	0.45	927	0.50	962	0.55	999	0.60	1036	0.65	1074	0.69	1112	0.73
2000	879	0.47	913	0.52	948	0.56	984	0.61	1020	0.67	1058	0.72	1096	0.76	1134	0.80
2100	900	0.53	935	0.58	970	0.63	1007	0.69	1044	0.74	1081	0.79	1119	0.84	1157	0.88
2200	922	0.60	958	0.65	994	0.71	1031	0.76	1068	0.82	1106	0.87	1143	0.91	1180	0.95
2300	947	0.67	983	0.73	1020	0.79	1057	0.85	1094	0.90	1131	0.95	1168	1.00	1205	1.03
2400	974	0.76	1010	0.82	1047	0.88	1084	0.94	1120	0.99	1157	1.04	1193	1.08	1230	1.12
2500	1002	0.85	1039	0.91	1075	0.97	1112	1.03	1148	1.08	1184	1.13	1220	1.17	1257	1.21
2600	1032	0.95	1068	1.01	1105	1.07	1141	1.13	1177	1.17	1213	1.22	1248	1.26	1284	1.31
2700	1062	1.05	1099	1.11	1136	1.17	1172	1.22	1207	1.27	1242	1.32	1277	1.37	1312	1.43
2800	1094	1.16	1131	1.22	1167	1.27	1202	1.32	1237	1.38	1271	1.43	1305	1.49	1339	1.56
2900	1127	1.26	1163	1.32	1198	1.38	1233	1.44	1267	1.50	1300	1.56	1334	1.64	1367	1.71

Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A04												Kit A08			
1900	1150	0.77	1188	0.81	1227	0.85	1267	0.88	1303	0.92	1333	0.97	1360	1.02	1392	1.06
2000	1172	0.84	1210	0.88	1248	0.92	1286	0.96	1321	1.00	1350	1.05	1377	1.10	1409	1.14
2100	1195	0.91	1233	0.95	1269	1.00	1306	1.04	1339	1.09	1367	1.14	1395	1.19	1426	1.23
2200	1218	0.99	1255	1.03	1290	1.09	1324	1.14	1356	1.19	1385	1.24	1413	1.28	1444	1.32
2300	1242	1.07	1277	1.13	1310	1.20	1343	1.26	1374	1.30	1403	1.34	1432	1.38	1464	1.42
2400	1267	1.16	1300	1.23	1332	1.31	1364	1.37	1394	1.41	1423	1.45	1453	1.48	1484	1.53
2500	1292	1.26	1324	1.34	1355	1.42	1387	1.48	1417	1.52	1445	1.56	1475	1.59	1506	1.64
2600	1318	1.38	1350	1.46	1380	1.55	1411	1.60	1440	1.64	1469	1.68	1498	1.71	1529	1.76
2700	1345	1.51	1376	1.60	1406	1.68	1436	1.73	1465	1.77	1493	1.80	1523	1.84	1553	1.88
2800	1372	1.65	1403	1.74	1433	1.82	1462	1.86	1490	1.90	1519	1.93	1548	1.97	1578	2.01
2900	1399	1.80	1430	1.89	1460	1.96	1489	2.00	1516	2.03	1544	2.06	1573	2.10	1603	2.14



## BLOWER DATA - BELT DRIVE - KGA072S/KGB074S - HORIZONTAL

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume cfm	External Static - in. w.g.															
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished										Kit A04					
1900	796	0.38	837	0.43	878	0.48	918	0.53	958	0.58	997	0.62	1036	0.67	1074	0.71
2000	833	0.43	870	0.48	907	0.54	943	0.59	980	0.64	1018	0.69	1055	0.73	1093	0.77
2100	864	0.50	897	0.55	931	0.60	966	0.65	1002	0.71	1038	0.76	1075	0.80	1113	0.83
2200	887	0.57	920	0.62	953	0.67	988	0.73	1024	0.78	1060	0.83	1097	0.87	1135	0.90
2300	909	0.64	942	0.70	976	0.75	1011	0.81	1046	0.86	1083	0.91	1120	0.95	1157	0.98
2400	931	0.72	965	0.78	999	0.83	1035	0.89	1071	0.94	1108	0.99	1144	1.03	1181	1.07
2500	955	0.80	989	0.86	1024	0.92	1061	0.98	1097	1.03	1133	1.08	1170	1.11	1205	1.15
2600	981	0.90	1016	0.96	1052	1.01	1088	1.07	1124	1.12	1160	1.16	1195	1.20	1230	1.25
2700	1009	0.99	1044	1.05	1080	1.11	1116	1.16	1152	1.21	1187	1.26	1221	1.30	1254	1.35
2800	1038	1.10	1073	1.16	1109	1.21	1145	1.26	1180	1.31	1214	1.36	1247	1.40	1279	1.46
2900	1068	1.20	1104	1.26	1139	1.31	1174	1.36	1208	1.41	1240	1.47	1273	1.52	1304	1.58
Air Volume cfm	External Static - in. w.g.															
	0.90		1.00		1.10		1.20		1.30		1.40		1.50		1.60	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Kit A04												Kit A08			
1900	1112	0.74	1151	0.77	1190	0.81	1228	0.84	1265	0.88	1301	0.92	1335	0.97	1367	1.01
2000	1131	0.80	1170	0.83	1208	0.87	1245	0.91	1281	0.96	1316	1.00	1349	1.04	1380	1.09
2100	1151	0.87	1189	0.90	1227	0.94	1263	0.99	1298	1.04	1331	1.08	1363	1.13	1394	1.17
2200	1173	0.94	1210	0.98	1246	1.02	1281	1.07	1315	1.12	1347	1.17	1379	1.22	1409	1.26
2300	1195	1.02	1231	1.06	1266	1.11	1300	1.16	1333	1.22	1364	1.27	1395	1.32	1424	1.36
2400	1217	1.10	1252	1.15	1286	1.20	1319	1.26	1351	1.32	1382	1.38	1411	1.43	1440	1.48
2500	1240	1.20	1274	1.25	1307	1.31	1339	1.37	1370	1.43	1400	1.49	1428	1.55	1457	1.59
2600	1264	1.30	1297	1.35	1329	1.42	1360	1.49	1389	1.55	1418	1.61	1446	1.67	1475	1.72
2700	1287	1.40	1319	1.47	1350	1.54	1380	1.61	1409	1.68	1437	1.74	1465	1.79	1493	1.84
2800	1311	1.52	1342	1.59	1373	1.66	1402	1.74	1430	1.8	1457	1.87	1485	1.92	1513	1.97
2900	1335	1.65	1366	1.72	1395	1.79	1424	1.87	1451	1.94	1478	2.00	1505	2.05	1533	2.09



## BLOWER DATA - BELT DRIVE - KGB072H/KGB074H - DOWNFLOW

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (heat section, economizer, etc.).
- 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in.w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Field Furnished				Drive Kit AA01															
1900	480	0.38	512	0.44	545	0.51	579	0.57	614	0.63	648	0.7	683	0.76	719	0.83	752	0.89	781	0.95
2000	493	0.43	525	0.49	558	0.56	592	0.62	626	0.68	659	0.75	693	0.81	728	0.88	759	0.94	788	1
2100	507	0.48	539	0.54	572	0.61	605	0.67	639	0.74	671	0.8	704	0.86	737	0.93	768	0.99	795	1.04
2200	522	0.53	554	0.6	587	0.66	619	0.73	652	0.79	684	0.86	716	0.92	747	0.98	777	1.04	803	1.1
2300	537	0.59	569	0.65	602	0.72	634	0.79	666	0.85	697	0.91	728	0.98	758	1.04	786	1.1	812	1.15
2400	553	0.65	585	0.71	617	0.78	649	0.85	680	0.91	711	0.98	740	1.04	769	1.1	796	1.15	821	1.21
2500	570	0.71	602	0.78	633	0.84	665	0.91	695	0.97	725	1.04	753	1.1	781	1.16	807	1.22	832	1.27
2600	588	0.77	619	0.84	650	0.91	680	0.97	710	1.04	739	1.1	767	1.16	793	1.22	818	1.28	842	1.33
2700	607	0.84	637	0.91	667	0.97	697	1.04	726	1.11	753	1.17	780	1.23	806	1.29	830	1.35	854	1.4
2800	626	0.91	655	0.97	684	1.04	713	1.11	741	1.18	768	1.24	794	1.3	819	1.36	842	1.42	866	1.47
2900	646	0.98	674	1.05	702	1.11	730	1.18	757	1.25	783	1.32	808	1.38	832	1.44	855	1.49	878	1.54

Air Volume (cfm)	External Static (in.w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA02				Drive Kit AA03															
1900	807	1	832	1.04	857	1.07	883	1.11	912	1.14	941	1.17	968	1.21	993	1.25	1017	1.29	1039	1.34
2000	813	1.04	838	1.08	862	1.12	889	1.15	917	1.19	945	1.22	972	1.26	997	1.3	1020	1.35	1042	1.4
2100	820	1.09	844	1.13	869	1.17	895	1.21	923	1.24	951	1.28	977	1.32	1001	1.36	1024	1.41	1046	1.46
2200	828	1.14	852	1.18	877	1.22	903	1.26	930	1.3	957	1.33	983	1.37	1006	1.42	1028	1.47	1050	1.53
2300	836	1.2	861	1.24	885	1.28	911	1.31	938	1.35	964	1.39	989	1.43	1012	1.48	1033	1.54	1054	1.6
2400	846	1.25	870	1.29	895	1.33	920	1.37	947	1.41	972	1.45	996	1.5	1018	1.55	1039	1.61	1059	1.67
2500	856	1.31	880	1.35	905	1.39	930	1.43	956	1.47	980	1.52	1003	1.57	1024	1.63	1044	1.69	1064	1.76
2600	866	1.38	891	1.42	915	1.46	940	1.5	965	1.54	988	1.59	1010	1.65	1031	1.71	1050	1.78	1069	1.84
2700	878	1.44	902	1.48	926	1.52	950	1.57	974	1.61	997	1.67	1018	1.73	1037	1.8	1056	1.87	1075	1.93
2800	889	1.51	913	1.55	937	1.59	961	1.64	984	1.69	1006	1.75	1026	1.82	1044	1.89	1063	1.96	1081	2.03
2900	902	1.58	925	1.63	949	1.67	972	1.72	994	1.78	1015	1.84	1034	1.91	1052	1.99	1069	2.06	1087	2.13

## BLOWER DATA - BELT DRIVE - KGB072H/KGB074H - HORIZONTAL

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in.w.g.)																				
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
	Field		Drive Kit AA01																		AA02
1900	507	0.55	538	0.58	571	0.6	604	0.63	639	0.66	673	0.7	707	0.74	740	0.78	772	0.82	802	0.86	
2000	522	0.59	554	0.62	586	0.64	620	0.67	653	0.71	687	0.74	720	0.78	752	0.82	783	0.87	812	0.91	
2100	539	0.63	571	0.66	603	0.69	636	0.72	669	0.75	702	0.79	734	0.83	765	0.88	795	0.92	823	0.97	
2200	557	0.68	588	0.71	620	0.74	652	0.77	685	0.81	717	0.84	748	0.89	778	0.93	807	0.98	834	1.03	
2300	576	0.73	607	0.76	638	0.79	670	0.83	701	0.86	733	0.9	763	0.95	792	0.99	820	1.04	846	1.09	
2400	596	0.79	626	0.82	657	0.85	688	0.89	718	0.92	749	0.96	778	1.01	806	1.06	833	1.11	858	1.16	
2500	616	0.85	645	0.88	676	0.91	706	0.95	736	0.99	765	1.03	794	1.08	821	1.13	847	1.18	871	1.23	
2600	636	0.91	665	0.94	695	0.98	724	1.02	754	1.06	782	1.1	809	1.15	836	1.2	861	1.25	885	1.3	
2700	657	0.97	685	1.01	714	1.04	743	1.08	771	1.13	799	1.17	826	1.22	851	1.27	875	1.32	899	1.37	
2800	677	1.03	706	1.07	734	1.11	762	1.16	790	1.2	816	1.25	842	1.3	867	1.35	890	1.4	913	1.45	
2900	698	1.1	726	1.14	754	1.19	781	1.23	808	1.28	834	1.33	859	1.38	883	1.43	906	1.48	928	1.54	

Air Volume (cfm)	External Static (in.w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA02				Drive Kit AA03															
1900	830	0.91	857	0.95	883	0.99	910	1.04	937	1.09	964	1.13	991	1.18	1017	1.23	1042	1.28	1067	1.34
2000	839	0.96	865	1	891	1.05	917	1.09	944	1.14	970	1.19	996	1.24	1022	1.29	1047	1.34	1071	1.4
2100	849	1.02	874	1.06	900	1.11	926	1.15	952	1.2	978	1.25	1003	1.3	1028	1.35	1052	1.41	1075	1.46
2200	860	1.08	885	1.12	910	1.17	935	1.21	960	1.26	986	1.31	1010	1.36	1034	1.42	1058	1.48	1081	1.53
2300	871	1.14	895	1.19	920	1.23	945	1.28	969	1.33	994	1.38	1018	1.43	1042	1.49	1065	1.55	1087	1.61
2400	883	1.21	907	1.25	931	1.3	955	1.35	979	1.4	1003	1.45	1027	1.51	1050	1.57	1072	1.63	1094	1.69
2500	895	1.28	919	1.32	942	1.37	966	1.42	990	1.48	1013	1.53	1036	1.59	1059	1.65	1081	1.71	1102	1.78
2600	908	1.35	931	1.4	955	1.45	978	1.5	1001	1.56	1024	1.62	1046	1.68	1068	1.74	1089	1.8	1110	1.87
2700	922	1.43	945	1.48	967	1.53	990	1.59	1013	1.65	1035	1.71	1056	1.77	1078	1.84	1099	1.9	1119	1.96
2800	936	1.51	958	1.56	980	1.62	1003	1.68	1025	1.74	1046	1.8	1067	1.87	1088	1.93	1109	2	1129	2.06
2900	950	1.6	972	1.66	994	1.72	1016	1.78	1037	1.84	1058	1.91	1079	1.97	1099	2.04	1119	2.11	1139	2.17

## BLOWER DATA - BELT DRIVE - KGA090 - DOWNFLOW

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume cfm	External Static - in. w.g.																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA01										Drive Kit AA02						AA03			
2400	621	0.71	652	0.76	684	0.81	716	0.86	746	0.92	776	0.97	805	1.02	830	1.08	855	1.14	879	1.19
2500	642	0.77	673	0.82	704	0.87	734	0.93	764	0.98	793	1.04	820	1.09	845	1.15	868	1.21	892	1.27
2600	665	0.82	694	0.88	724	0.93	753	0.99	782	1.05	810	1.11	835	1.17	859	1.23	883	1.29	907	1.34
2700	688	0.89	716	0.94	744	1.00	773	1.06	800	1.13	827	1.19	851	1.25	875	1.31	898	1.37	922	1.42
2800	710	0.95	738	1.02	765	1.08	792	1.15	818	1.21	844	1.28	868	1.34	891	1.40	914	1.45	938	1.51
2900	733	1.03	759	1.10	785	1.17	811	1.24	836	1.30	861	1.37	885	1.43	908	1.49	931	1.54	954	1.59
3000	754	1.12	779	1.19	805	1.26	830	1.33	855	1.40	879	1.46	902	1.52	925	1.58	948	1.63	970	1.69
3100	775	1.22	800	1.29	824	1.36	849	1.43	873	1.50	897	1.56	920	1.62	942	1.67	964	1.73	987	1.78
3200	796	1.32	820	1.39	844	1.47	868	1.53	892	1.60	915	1.66	937	1.72	959	1.77	981	1.83	1002	1.88
3300	816	1.43	840	1.50	863	1.57	887	1.64	910	1.70	933	1.76	955	1.82	976	1.88	997	1.93	1018	1.99
3400	837	1.54	860	1.61	883	1.68	906	1.75	929	1.81	951	1.87	972	1.93	993	1.98	1013	2.05	1033	2.11
3500	858	1.66	881	1.73	903	1.79	926	1.86	948	1.92	969	1.98	990	2.04	1009	2.10	1029	2.17	1048	2.24
3600	879	1.77	901	1.84	923	1.91	945	1.97	966	2.04	987	2.10	1006	2.16	1025	2.23	1044	2.30	1062	2.38

Air Volume cfm	External Static - in. w.g.																			
	0.90		1.00		1.30		1.40		1.50		1.60		1.70		1.80		1.90		2.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA03																	AA04		
2400	904	1.25	929	1.29	956	1.34	982	1.39	1008	1.43	1032	1.49	1056	1.55	1078	1.62	1099	1.68	1121	1.75
2500	917	1.32	942	1.37	968	1.41	994	1.46	1020	1.51	1044	1.57	1066	1.64	1088	1.70	1108	1.77	1130	1.84
2600	931	1.39	957	1.44	982	1.49	1008	1.54	1032	1.60	1055	1.66	1077	1.73	1098	1.80	1118	1.87	1139	1.94
2700	946	1.47	971	1.52	996	1.57	1021	1.63	1045	1.69	1067	1.76	1088	1.83	1108	1.91	1127	1.98	1148	2.05
2800	962	1.56	986	1.61	1011	1.66	1034	1.72	1057	1.79	1079	1.86	1099	1.94	1118	2.02	1137	2.09	1158	2.16
2900	978	1.65	1001	1.70	1025	1.75	1048	1.82	1069	1.89	1090	1.98	1109	2.06	1128	2.14	1147	2.22	1167	2.28
3000	993	1.74	1016	1.79	1039	1.86	1061	1.93	1081	2.01	1101	2.10	1120	2.18	1138	2.27	1157	2.34	1177	2.41
3100	1009	1.84	1031	1.90	1052	1.97	1073	2.05	1093	2.13	1112	2.22	1130	2.31	1148	2.40	1167	2.47	1187	2.53
3200	1024	1.94	1045	2.01	1065	2.09	1085	2.17	1104	2.26	1123	2.36	1141	2.45	1159	2.53	1178	2.60	1198	2.66
3300	1038	2.06	1058	2.13	1078	2.22	1097	2.31	1116	2.40	1134	2.49	1152	2.58	1170	2.66	1189	2.73	1209	2.79
3400	1053	2.19	1072	2.27	1091	2.35	1109	2.45	1127	2.54	1145	2.63	1163	2.72	1181	2.79	1200	2.86	1220	2.92
3500	1067	2.32	1085	2.41	1103	2.50	1121	2.59	1138	2.69	1156	2.78	1174	2.85	1192	2.93	1212	2.99	1231	3.05
3600	1081	2.46	1098	2.55	1116	2.64	1133	2.74	1151	2.83	1168	2.91	1186	2.99	1205	3.06	1224	3.12	1243	3.17

## BLOWER DATA - BELT DRIVE - KGA090 - HORIZONTAL

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, wet coil, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 41 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume cfm	External Static - in. w.g.																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA01															Drive Kit AA02				
2400	572	0.75	602	0.78	633	0.81	664	0.85	695	0.88	725	0.92	755	0.97	784	1.01	811	1.06	836	1.11
2500	591	0.80	620	0.83	650	0.87	680	0.90	711	0.94	740	0.98	769	1.03	797	1.08	823	1.13	847	1.18
2600	610	0.86	639	0.89	668	0.92	697	0.96	727	1.00	755	1.05	783	1.09	810	1.14	835	1.20	859	1.25
2700	630	0.91	658	0.95	686	0.98	715	1.02	743	1.07	771	1.11	798	1.16	824	1.22	848	1.27	872	1.32
2800	650	0.97	677	1.01	705	1.05	732	1.09	760	1.14	787	1.19	813	1.24	838	1.30	861	1.35	885	1.40
2900	670	1.03	697	1.07	724	1.11	750	1.16	777	1.21	803	1.27	828	1.32	852	1.38	876	1.44	898	1.49
3000	691	1.09	717	1.14	743	1.18	769	1.24	794	1.29	819	1.35	844	1.42	868	1.47	890	1.53	913	1.58
3100	712	1.16	737	1.21	762	1.27	787	1.32	812	1.39	836	1.45	860	1.51	883	1.57	906	1.63	928	1.68
3200	732	1.24	756	1.30	781	1.36	805	1.42	829	1.48	853	1.55	876	1.61	899	1.67	921	1.73	943	1.78
3300	752	1.33	776	1.39	799	1.46	823	1.52	847	1.59	870	1.65	893	1.71	916	1.77	937	1.83	959	1.88
3400	772	1.43	795	1.50	818	1.56	842	1.63	865	1.69	888	1.76	910	1.82	932	1.88	953	1.93	974	1.99
3500	792	1.54	815	1.61	838	1.67	861	1.74	883	1.80	906	1.87	928	1.93	949	1.98	970	2.04	990	2.10
3600	812	1.65	834	1.72	857	1.79	880	1.85	902	1.92	924	1.98	945	2.04	966	2.10	986	2.16	1005	2.22
Air Volume cfm	External Static - in. w.g.																			
	0.90		1.00		1.30		1.40		1.50		1.60		1.70		1.80		1.90		2.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Drive Kit AA03															AA02				
2400	861	1.16	886	1.21	911	1.26	937	1.30	963	1.35	988	1.41	1012	1.47	1034	1.53	1055	1.59	1076	1.65
2500	872	1.23	896	1.27	921	1.32	947	1.37	972	1.43	997	1.48	1019	1.55	1041	1.61	1061	1.68	1081	1.74
2600	883	1.30	908	1.35	933	1.40	958	1.45	982	1.50	1006	1.57	1027	1.63	1048	1.70	1068	1.77	1087	1.83
2700	895	1.37	920	1.42	944	1.47	969	1.53	992	1.59	1015	1.65	1036	1.72	1056	1.79	1075	1.86	1094	1.92
2800	908	1.45	932	1.50	956	1.56	980	1.62	1003	1.68	1025	1.75	1045	1.82	1064	1.89	1083	1.96	1102	2.02
2900	922	1.54	945	1.59	969	1.65	992	1.71	1014	1.78	1035	1.85	1055	1.92	1074	2.00	1092	2.07	1111	2.13
3000	936	1.63	959	1.68	982	1.74	1004	1.81	1026	1.88	1046	1.96	1065	2.03	1084	2.11	1102	2.18	1120	2.25
3100	950	1.73	973	1.78	995	1.85	1017	1.91	1037	1.99	1057	2.07	1076	2.15	1094	2.23	1112	2.31	1130	2.38
3200	965	1.83	987	1.89	1008	1.95	1029	2.03	1049	2.11	1068	2.19	1087	2.28	1105	2.36	1123	2.44	1141	2.51
3300	980	1.94	1001	2.00	1022	2.07	1042	2.15	1061	2.23	1080	2.32	1098	2.41	1116	2.50	1134	2.58	1152	2.65
3400	995	2.05	1015	2.12	1035	2.19	1054	2.28	1073	2.37	1092	2.46	1110	2.55	1128	2.64	1145	2.72	1163	2.79
3500	1010	2.17	1029	2.24	1048	2.32	1067	2.41	1086	2.51	1104	2.60	1122	2.70	1139	2.78	1157	2.86	1174	2.93
3600	1024	2.30	1043	2.38	1062	2.46	1080	2.55	1098	2.65	1116	2.75	1133	2.84	1151	2.93	1168	3.01	1186	3.08
	Drive Kit AA04															AA03				

## BLOWER DATA

### BELT DRIVE KIT SPECIFICATIONS - 036-072S

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range							
	Nominal	Maximum		A01	A02	A03	A04	A05	A06	A07	A08
036	0.75	0.86	1	673-1010	---	---	---	897-1346	---	---	---
	1	1.15	1	673-1010	---	---	---	897-1346	---	---	---
	1.5	1.7	1	673-1010	---	---	---	897-1346	---	---	---
	2	2.3	1	673-1010	---	---	---	897-1346	---	---	---
048	0.75	0.86	1	---	745-1117	---	---	---	1071-1429	---	---
	1	1.15	1	---	745-1117	---	---	---	1071-1429	---	---
	1.5	1.7	1	---	745-1117	---	---	---	1071-1429	---	---
	2	2.3	1	---	745-1117	---	---	---	1071-1429	---	---
060	0.75	0.86	1	---	---	833-1250	---	---	---	1212-1548	---
	1	1.15	1	---	---	833-1250	---	---	---	1212-1548	---
	1.5	1.7	1	---	---	833-1250	---	---	---	1212-1548	---
	2	2.3	1	---	---	833-1250	---	---	---	1212-1548	---
072S	1	1.5	1	---	---	---	968-1340	---	---	---	1193-1591
	2	2.3	1	---	---	---	968-1340	---	---	---	1193-1591
074S	1	1.5	2	---	---	---	968-1340	---	---	---	1193-1591
	2	2.3	2	---	---	---	968-1340	---	---	---	1193-1591

### BELT DRIVE KIT SPECIFICATIONS - 072H/074H/090

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range			
	Nominal	Maximum		AA01	AA02	AA03	AA04
072H	1	1.15	1	522-784	632-875	798-1105	---
	2	2.3	1	522-784	632-875	798-1105	---
074H	1	1.15	2	522-784	632-875	798-1105	---
	2	2.3	2	522-784	632-875	798-1105	---
090	1	1.15	1	522-784	---	---	---
	2	2.3	1	---	632-875	798-1105	---
	3	3.45	1	---	---	---	921-1228

NOTE - Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

### OPTIONS / ACCESSORIES AIR RESISTANCE FOR 024-074 MODELS - in. w.g.

Air Volume cfm	Wet Indoor Coil			Gas Heat		Economizer	Filters	
	036-048	060	072/074	Medium Input	High Input		MERV 8	MERV 13
800	0.01	0.01	0.01	0.02	0.02	0.04	0.04	0.05
1000	0.02	0.02	0.01	0.02	0.02	0.04	0.04	0.07
1200	0.03	0.04	0.02	0.02	0.02	0.04	0.04	0.07
1400	0.04	0.05	0.03	0.02	0.03	0.04	0.04	0.07
1600	0.05	0.06	0.04	0.03	0.04	0.04	0.04	0.07
1800	0.06	0.07	0.05	0.03	0.05	0.05	0.05	0.07
2000	0.08	0.09	0.06	0.04	0.06	0.05	0.05	0.08
2200	0.09	0.10	0.07	0.04	0.07	0.05	0.05	0.08
2400	0.10	0.12	0.08	0.05	0.08	0.05	0.05	0.08
2600	0.11	0.13	0.09	0.05	0.09	0.06	0.05	0.08
2800	0.13	0.15	0.10	0.06	0.10	0.06	0.05	0.08
3000	0.14	0.16	0.12	0.07	0.11	0.06	0.05	0.08

### OPTIONS / ACCESSORIES AIR RESISTANCE FOR 090 MODELS - in. w.g.

Air Volume cfm	Wet Indoor Coil	Gas Heat High Input	Economizer	Filters	
				MERV 8	MERV 13
2400	0.08	0.03	0.05	0.05	0.08
2600	0.09	0.04	0.06	0.05	0.08
2800	0.10	0.04	0.06	0.05	0.08
3000	0.11	0.04	0.06	0.05	0.08
3200	0.12	0.04	0.06	0.06	0.09
3400	0.14	0.05	0.06	0.06	0.09
3600	0.15	0.05	0.06	0.06	0.10

## BLOWER DATA

### CEILING DIFFUSERS AIR RESISTANCE (in. w.g.)

Air Volume cfm	RTD9-65 Step-Down Diffuser			FD9-65 Flush Diffuser	RTD11-95 Step-Down Diffuser			FD11-95 Flush Diffuser
	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open		2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	
800	0.15	0.13	0.11	0.11	---	---	---	---
1000	0.19	0.16	0.14	0.14	---	---	---	---
1200	0.25	0.20	0.17	0.17	---	---	---	---
1400	0.33	0.26	0.20	0.20	---	---	---	---
1600	0.43	0.32	0.20	0.24	---	---	---	---
1800	0.56	0.40	0.30	0.30	0.13	0.11	0.09	0.09
2000	0.73	0.50	0.36	0.36	0.15	0.13	0.11	0.10
2200	0.95	0.63	0.44	0.44	0.18	0.15	0.12	0.12
2400	---	----	---	---	0.21	0.18	0.15	0.14
2600	---	----	---	---	0.24	0.21	0.18	0.17
2800	---	----	---	---	0.27	0.24	0.21	0.20
3000	---	----	---	---	0.32	0.29	0.25	0.25
3200	---	----	---	---	0.41	0.37	0.32	0.31
3400	---	----	---	---	0.50	0.45	0.39	0.37
3600	---	----	---	---	0.61	0.54	0.48	0.44

### CEILING DIFFUSER AIR THROW DATA

Air Volume - cfm	<sup>1</sup> Effective Throw - ft.	
Model No.	RTD9-65	FD9-65
800	10 - 17	14 - 18
1000	10 - 17	15 - 20
1200	11 - 18	16 - 22
1400	12 - 19	17 - 24
1600	12 - 20	18 - 25
1800	13 - 21	20 - 28
2000	14 - 23	21 - 29
2200	16 - 25	22 - 30
Model No.	RTD11-95	FD11-95
2600	24 - 29	19 - 24
2800	25 - 30	20 - 28
3000	27 - 33	21 - 29
3200	28 - 35	22 - 29
3400	30 - 37	22 - 30
3600	25 - 33	22 - 24

<sup>1</sup> Effective throw based on terminal velocities of 75 ft. per minute.

## OUTDOOR SOUND DATA

Unit Model No.	Octave Band Linear Sound Power Levels dBA, re 10 <sup>-12</sup> Watts - Center Frequency - Hz							<sup>1</sup> Sound Rating Number (SRN) (dBA)
	125	250	500	1000	2000	4000	8000	
KGA036 and 048	63	66	70	71	68	62	53	75
KGA060	67	72	77	76	73	68	61	82
KGA072	66	71	74	73	70	65	57	79
KGA090	66	71	73	74	70	65	57	79
KGB024, 030, 036, 048	61	65	70	67	64	58	49	74
KGB060	66	71	74	73	70	65	57	79
KGB072, 074	66	71	74	73	70	65	57	79

Note - The octave sound power data does not include tonal corrections.

<sup>1</sup> Sound Rating Number according to ARI Standard 270-95 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dBA (100 Hz to 10,000 Hz).



<b>ELECTRICAL DATA - KGB</b>		<b>2 - 2.5 TON</b>	
<b>DIRECT DRIVE BLOWER</b>		<b>KGB024S</b>	<b>KGB030S</b>
<sup>1</sup> Voltage - 60hz		<b>208/230V - 1 Ph</b>	<b>208/230V - 1 Ph</b>
Compressor	Rated Load Amps	9.8	12.7
	Locked Rotor Amps	47	64
Outdoor Fan Motor	Full Load Amps	1.7	1.7
Service Outlet 115V GFI (amps)		15	15
Indoor Blower Motor	Horsepower	0.25	0.25
	Type	Direct	Direct
	Full Load Amps	1.8	1.8
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	25	30
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	16	20
<b>ELECTRICAL ACCESSORIES</b>			
Disconnect	Standard Access	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<b>ELECTRICAL DATA - KGB</b>		<b>3 TON</b>			
<b>KGB036S - DIRECT DRIVE BLOWER</b>					
<sup>1</sup> Voltage - 60hz		<b>208/230V - 1 Ph</b>	<b>208/230V - 3 Ph</b>	<b>460V - 3 Ph</b>	<b>575V - 3 Ph</b>
Compressor	Rated Load Amps	15.3	8.7	4	3.6
	Locked Rotor Amps	70	70	31	27
Outdoor Fan Motor	Full Load Amps	1.7	1.7	1.1	0.7
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3	1
Service Outlet 115V GFI (amps)		15	15	15	20
Indoor Blower Motor	Horsepower	0.5	0.5	0.5	0.5
	Type	Direct	Direct	Direct	Direct
	Full Load Amps	3.9	3.9	2	2
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	40	25	15	15
	with (1) 0.33 HP Power Exhaust	40	25	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	25	17	9	8
	with (1) 0.33 HP Power Exhaust	28	19	10	9
<b>ELECTRICAL ACCESSORIES</b>					
Disconnect	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGB****4 TON****KGB048S - DIRECT DRIVE BOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor	Rated Load Amps	20	11	5.5	4.7
	Locked Rotor Amps	99	86	37	34
Outdoor Fan Motor	Full Load Amps	1.7	1.7	1.1	0.7
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3	1
Service Outlet 115V GFI (amps)		15	15	1.3	1
Indoor Blower Motor	Horsepower	0.5	0.5	0.5	0.5
	Type	Direct	Direct	Direct	Direct
	Full Load Amps	3.9	3.9	2	2
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	30	15	15
	with (1) 0.33 HP Power Exhaust	50	30	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	31	20	10	9
	with (1) 0.33 HP Power Exhaust	33	22	12	10

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGB****5 TON****KGB060S - DIRECT DRIVE BOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor	Rated Load Amps	22.1	13.5	8	5
	Locked Rotor Amps	125	109	59	40
Outdoor Fan Motor	Full Load Amps	2.4	2.4	1.3	1
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3	1
Service Outlet 115V GFI (amps)		15	15	15	20
Indoor Blower Motor	Horsepower	0.75	0.75	0.75	0.75
	Type	Direct	Direct	Direct	Direct
	Full Load Amps	4.9	4.9	2.5	2.5
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	35	20	15
	with (1) 0.33 HP Power Exhaust	50	40	20	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	35	25	14	10
	with (1) 0.33 HP Power Exhaust	38	27	16	11

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGB****3 TON****KGB036S - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	15.3		8.7		4		3.6	
	Locked Rotor Amps	70		70		31		27	
Outdoor Fan Motor	Full Load Amps	1.7		1.7		1.1		0.7	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		15		20	
Indoor Blower Motor	Horsepower	0.75	1.5	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	7.6	11	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	40	45	25	25	15	15	15	15
	with (1) 0.33 HP Power Exhaust	45	45	25	30	15	15	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	29	32	18	21	9	10	7	8
	with (1) 0.33 HP Power Exhaust	31	35	20	23	10	11	8	9

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGB****4 TON****KGB048S - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	20		11		5.5		4.7	
	Locked Rotor Amps	99		86		37		34	
Outdoor Fan Motor	Full Load Amps	1.7		1.7		1.1		0.7	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		15		20	
Indoor Blower Motor	Horsepower	0.75	1.5	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	7.6	11	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	50	30	30	15	15	15	15
	with (1) 0.33 HP Power Exhaust	50	60	30	35	15	15	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	35	38	21	23	11	12	9	10
	with (1) 0.33 HP Power Exhaust	37	41	23	26	12	13	10	11

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGB****5 TON****KGB060S - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	22.1		13.5		8		5	
	Locked Rotor Amps	125		109		59		40	
Outdoor Fan Motor	Full Load Amps	2.4		2.4		1.3		1	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		15		20	
Indoor Blower Motor	Horsepower	0.75	1.5	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	7.6	11	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	60	35	40	20	20	15	15
	with (1) 0.33 HP Power Exhaust	60	60	35	40	20	20	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	38	42	24	27	14	15	9	10
	with (1) 0.33 HP Power Exhaust	41	44	27	30	15	16	10	11

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGB****6 TON****KGB072H HIGH EFFICIENCY - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	19.6		8.2		6.6	
	Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor	Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		20	
Indoor Blower Motor	Horsepower	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	50	20	20	15	15
	with (1) 0.33 HP Power Exhaust	50	50	20	20	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	32	32	13	14	10	11
	with (1) 0.33 HP Power Exhaust	34	35	14	15	11	12

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGB****6 TON****KGB074S STANDARD EFFICIENCY - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	17.6		8.5		6.3	
	Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor	Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		20	
Indoor Blower Motor	Horsepower	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	45	45	20	20	15	15
	with (1) 0.33 HP Power Exhaust	45	50	20	25	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	29	32	15	16	11	12
	with (1) 0.33 HP Power Exhaust	32	35	16	17	12	13

**ELECTRICAL ACCESSORIES**

<b>Disconnect</b>	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGB****6 TON****KGB074H HIGH EFFICIENCY - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 1 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	17.6		8.5		6.3	
	Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor	Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		20	
Indoor Blower Motor	Horsepower	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	45	45	20	20	15	15
	with (1) 0.33 HP Power Exhaust	45	50	20	25	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	29	32	15	16	11	12
	with (1) 0.33 HP Power Exhaust	32	35	16	17	12	13

**ELECTRICAL ACCESSORIES**

<b>Disconnect</b>	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGA****3 TON****KGA036S - DIRECT AND BELT DRIVE**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor	Rated Load Amps	10.4			5.8			3.8		
	Locked Rotor Amps	73			38			36.5		
Outdoor Fan Motor	Full Load Amps	1.7			1.1			0.7		
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4			1.3			1		
Service Outlet 115V GFI (amps)		15			15			20		
Indoor Blower Motor	Horsepower	0.5	1	2	0.5	1	2	0.5	1	2
	Type	Direct	Belt	Belt	Direct	Belt	Belt	Direct	Belt	Belt
	Full Load Amps	3.9	4.6	7.5	2	2.1	3.4	2	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	25	25	30	15	15	15	15	15	15
	with (1) 0.33 HP Power Exhaust	30	30	35	15	15	15	15	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	19	20	23	11	11	12	8	8	9
	with (1) 0.33 HP Power Exhaust	21	22	25	12	12	14	9	9	10

**ELECTRICAL ACCESSORIES**

<b>Disconnect</b>	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGA****4 TON****KGA048S - DIRECT AND BELT DRIVE**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor	Rated Load Amps	13.7			6.2			4.8		
	Locked Rotor Amps	83.1			41			33		
Outdoor Fan Motor	Full Load Amps	1.7			1.1			0.7		
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4			1.3			1		
Service Outlet 115V GFI (amps)										
Indoor Blower Motor	Horsepower	0.5	1	2	0.5	1	2	0.5	1	2
	Type	Direct	Belt	Belt	Direct	Belt	Belt	Direct	Belt	Belt
	Full Load Amps	3.9	4.6	7.5	2	2.1	3.4	2	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	35	35	40	15	15	15	15	15	15
	with (1) 0.33 HP Power Exhaust	35	35	40	15	15	15	15	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	23	24	27	11	11	13	9	9	10
	with (1) 0.33 HP Power Exhaust	26	26	29	13	13	14	10	10	11

**ELECTRICAL ACCESSORIES**

<b>Disconnect</b>	Standard Access	<b>20W17</b>	<b>20W17</b>	<b>20W17</b>
	Hinged Access	<b>20W23</b>	<b>20W23</b>	<b>20W23</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.



**ELECTRICAL DATA - KGA****5 TON****KGA060S - DIRECT AND BELT DRIVE**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor	Rated Load Amps	13.5			8			5		
	Locked Rotor Amps	109			59			40		
Outdoor Fan Motor	Full Load Amps	2.4			1.3			1		
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4			1.3			1		
Service Outlet 115V GFI (amps)		15			15			20		
Indoor Blower Motor	Horsepower	0.75	1	2	0.75	1	2	0.75	1	2
	Type	Direct	Belt	Belt	Direct	Belt	Belt	Direct	Belt	Belt
	Full Load Amps	4.9	4.6	7.5	2.5	2.1	3.4	2.5	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	35	35	40	20	20	20	15	15	15
	with (1) 0.33 HP Power Exhaust	40	35	40	20	20	20	15	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	25	24	27	14	14	15	10	9	10
	with (1) 0.33 HP Power Exhaust	27	27	30	16	15	16	11	10	11

**ELECTRICAL ACCESSORIES**

Disconnect	Standard Access	<b>20W17</b>			<b>20W17</b>			<b>20W17</b>		
	Hinged Access	<b>20W23</b>			<b>20W23</b>			<b>20W23</b>		

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA - KGA****6 TON****KGA072S - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor	Rated Load Amps	19.6		8.2		6.6	
	Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor	Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)		15		15		20	
Indoor Blower Motor	Horsepower	1	2	1	2	1	2
	Type	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	50	50	20	20	15	15
	with (1) 0.33 HP Power Exhaust	50	50	20	20	15	15
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	32	35	14	15	11	12
	with (1) 0.33 HP Power Exhaust	34	37	15	17	12	13

**ELECTRICAL ACCESSORIES**

Disconnect Kit	Standard Access	<b>20W20</b>		<b>20W20</b>		<b>20W20</b>	
	Hinged Access	<b>20W26</b>		<b>20W26</b>		<b>20W26</b>	

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRICAL DATA - KGA****7.5 TON****KGA090S - BELT DRIVE BLOWER**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor 1	Rated Load Amps	25			12.2			9		
	Locked Rotor Amps	164			100			78		
Outdoor Fan Motors (1)	Full Load Amps (total)	2.4			1.3			1		
Power Exhaust (1) 0.33 HP	Full Load Amps (total)	2.4			1.3			1		
Service Outlet 115V GFI		15			15			20		
Indoor Blower Motor	Horsepower	1	2	3	1	2	3	1	2	3
	Type	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt	Belt
	Full Load Amps	4.6	7.5	10.6	2.1	3.4	4.8	1.7	2.7	3.9
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	60	60	60	30	30	30	20	20	25
	with (1) 0.33 HP Power Exhaust	60	60	70	30	30	30	20	20	25
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	39	42	45	19	20	22	14	15	17
	with (1) 0.33 HP Power Exhaust	41	44	47	20	22	23	15	16	18

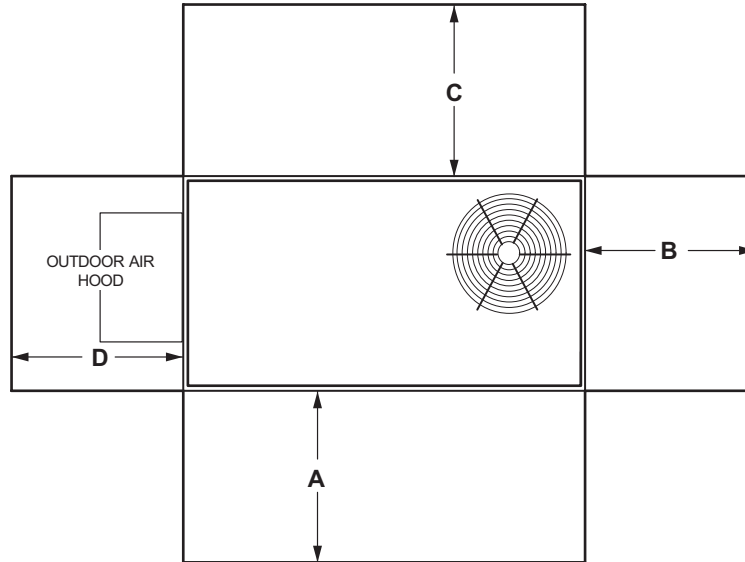
**ELECTRICAL ACCESSORIES**

Disconnect Kit	Standard Access	<b>20W20</b>	<b>20W20</b>	<b>20W20</b>
	Hinged Access	<b>20W26</b>	<b>20W26</b>	<b>20W26</b>

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

## UNIT CLEARANCES - INCHES (MM)



<sup>1</sup> Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
<b>Service Clearance</b>	48	1219	36	914	36	914	36	914	<b>Unobstructed</b>
<b>Clearance to Combustibles</b>	36	914	1	25	1	25	1	25	
<b>Minimum Operation Clearance</b>	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> **Service Clearance** - Required for removal of serviceable parts.

**Clearance to Combustibles** - Required clearance to combustible material.

**Minimum Operation Clearance** - Required clearance for proper unit operation.

## OUTDOOR SOUND DATA

Unit Model No.	Octave Band Linear Sound Power Levels dBA, re 10 <sup>-12</sup> Watts - Center Frequency - Hz							<sup>1</sup> Sound Rating Number (SRN) (dBA)
	125	250	500	1000	2000	4000	8000	
<b>KGA036 and 048</b>	63	66	70	71	68	62	53	75
<b>KGA060</b>	67	72	77	76	73	68	61	82
<b>KGA072</b>	66	71	74	73	70	65	57	79
<b>KGA090</b>	66	71	73	74	70	65	57	79
<b>KGB024, 030, 036, 048</b>	61	65	70	67	64	58	49	74
<b>KGB060</b>	66	71	74	73	70	65	57	79

Note - The octave sound power data does not include tonal corrections.

<sup>1</sup> Sound Rating Number according to ARI Standard 270-95 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dBA (100 Hz to 10,000 Hz).

## WEIGHT DATA

Model Number	Net				Shipping			
	Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
KGB024S	530	240	640	290	571	259	681	309
KGB030S	533	242	643	292	574	260	684	310
KGA036S	534	242	634	288	594	269	703	319
KGB036S	555	252	701	318	596	270	742	337
KGA048S	571	258	682	309	631	286	751	341
KGB048S	555	252	716	325	596	270	757	343
KGA060S	601	273	712	323	661	300	781	354
KGB060S	649	294	813	369	690	313	854	387
KGA072S, 072H, 074S, 074H	649	294	813	369	690	313	854	387
KGA090S	783	355	883	401	843	382	953	432

Base Unit - The unit with standard heat exchanger NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (High Input Heat Exchanger, Economizer, etc.)

## OPTIONS / ACCESSORIES

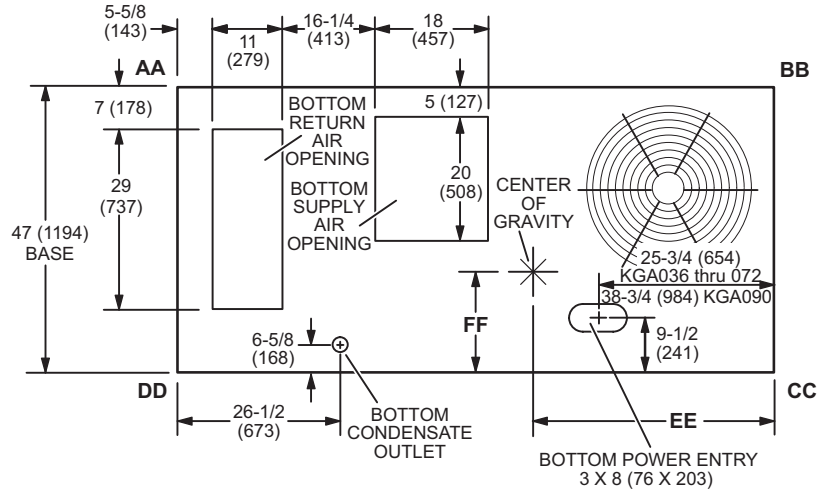
	Shipping Weights		
	lbs.	kg	
<b>ECONOMIZER / OUTDOOR AIR / EXHAUST</b>			
<b>Economizer</b>			
Economizer - Includes Barometric Relief Dampers and Exhaust Hood	131	59	
<b>Outdoor Air Dampers</b>			
Motorized	25	12	
Manual	18	9	
<b>Power Exhaust</b>			
Standard Static	35	16	
<b>GAS HEAT</b>			
Medium Heat (adder over standard heat)	8	4	
High Heat (adder over standard heat)	19	9	
<b>ROOF CURBS</b>			
<b>Hybrid Roof Curbs, Downflow</b>			
8 in. height	50	23	
14 in. height	70	32	
18 in. height	80	36	
24 in. height	100	45	
<b>Hybrid Curbs, Full Perimeter, Downflow</b>			
8 in. height	57	26	
14 in. height	60	27	
18 in. height	91	41	
24 in. height	114	52	
<b>Adjustable Pitch Curb, Downflow</b>			
14 in. height	113	51	
<b>CEILING DIFFUSERS</b>			
Step-Down	RTD9-65	67	30
	RTD11-95	88	40
Flush	FD9-65	37	17
	FD11-95	75	34
Transitions (Supply and Return)	T1TRAN10AN1	22	10
	T1TRAN20N-1	21	10

## DIMENSIONS - UNIT - INCHES (MM) - KGA

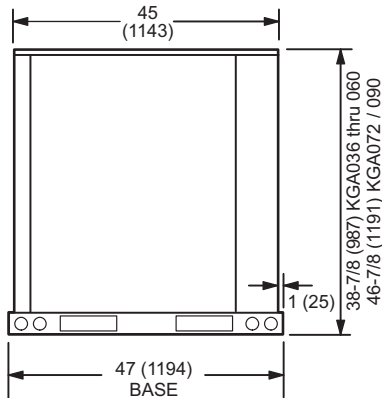
Model No.	CORNER WEIGHTS								CENTER OF GRAVITY															
	AA		BB		CC		DD		EE		FF		FF		FF									
	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base in.	Max. mm	Base in.	Max. mm	Base in.	Max. mm	Base in.	Max. mm								
<b>036</b>	92	42	114	52	112	51	129	59	181	82	208	94	149	68	184	83	38-1/2	978	40	1016	18	457	18	457
<b>048</b>	99	45	123	56	120	55	139	63	193	88	223	102	159	72	197	90	38-1/2	978	40	1016	18	457	18	457
<b>060</b>	104	47	128	58	126	57	145	66	203	92	233	106	167	76	206	94	38-1/2	978	40	1016	18	457	18	457
<b>072</b>	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
<b>090</b>	168	76	195	88	183	83	212	96	227	103	263	119	203	95	241	109	47	1194	47	1194	21	533	21	533

Base Unit - The unit with NO INTERNAL OPTIONS.

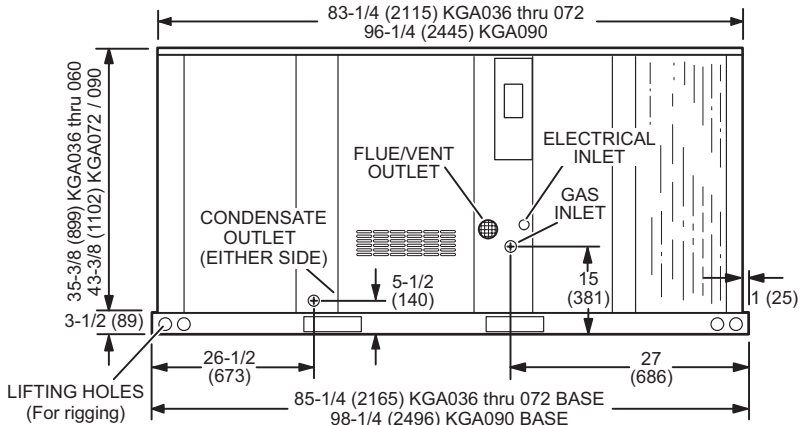
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



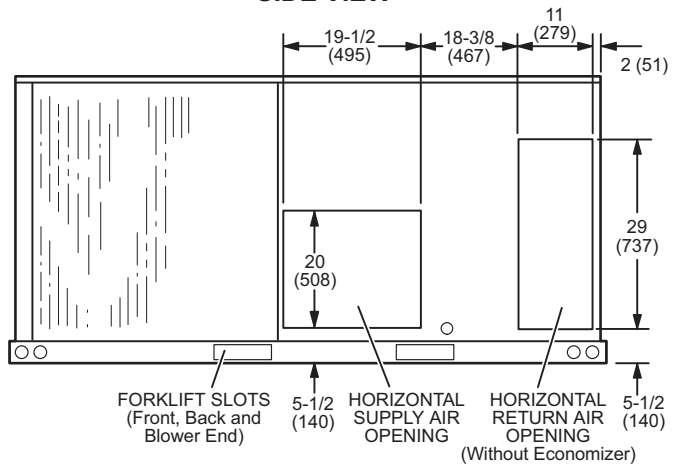
**TOP VIEW (Base)**



**END VIEW**



**SIDE VIEW**



**BACK VIEW**

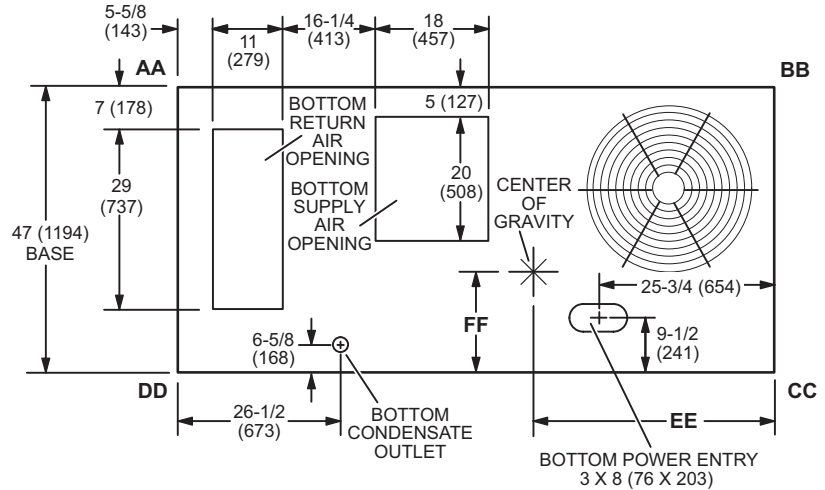


## DIMENSIONS - UNIT - INCHES (MM) - KGB

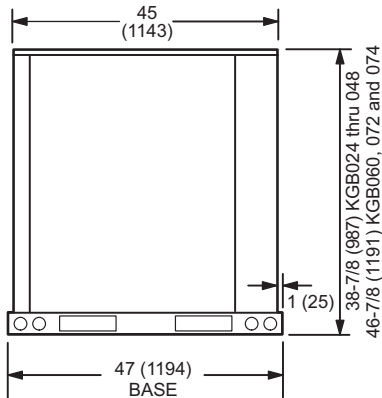
Model No.	CORNER WEIGHTS								CENTER OF GRAVITY															
	AA		BB		CC		DD		EE		FF		FF											
	Base	Max.	Base	Max.	Base	Max.	Base	Max.	Base	Max.	Base	Max.	Base	Max.										
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm	in.	mm										
<b>024</b>	107	49	129	59	124	56	132	60	160	73	170	77	138	63	208	95	39-1/2	1003	45	1143	20-1/2	521	20-1/2	521
<b>030</b>	108	49	130	59	125	57	132	60	161	73	171	78	139	63	209	95	39-1/2	1003	45	1143	20-1/2	521	20-1/2	521
<b>036</b>	112	51	142	64	130	59	141	64	168	76	190	86	145	66	228	104	39-1/2	1003	45	1143	20-1/2	521	20	508
<b>048</b>	112	51	145	66	130	59	144	65	168	76	194	88	145	66	233	106	39-1/2	1003	45	1143	20-1/2	521	20	508
<b>060</b>	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
<b>072</b>	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
<b>074</b>	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508

Base Unit - The unit with NO INTERNAL OPTIONS.

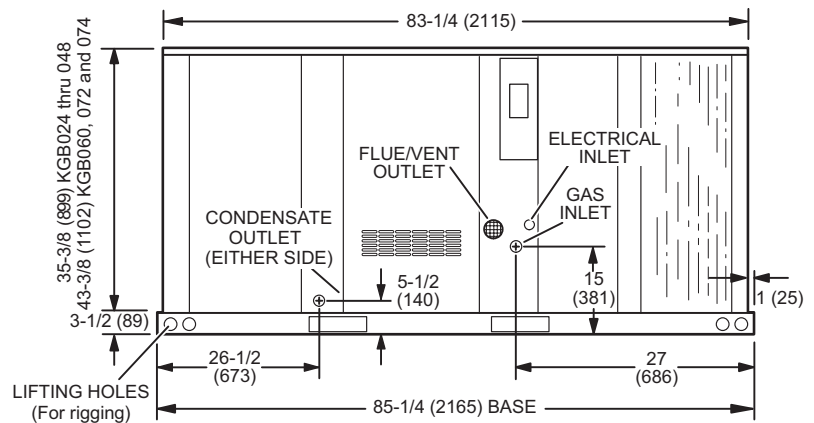
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



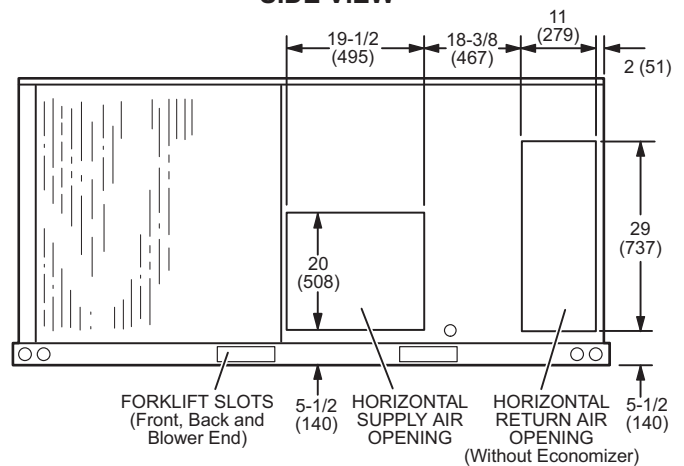
**TOP VIEW (Base)**



**END VIEW**



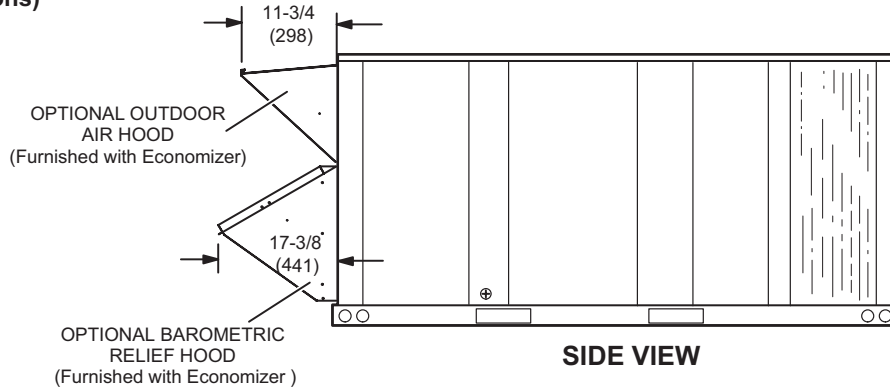
**SIDE VIEW**



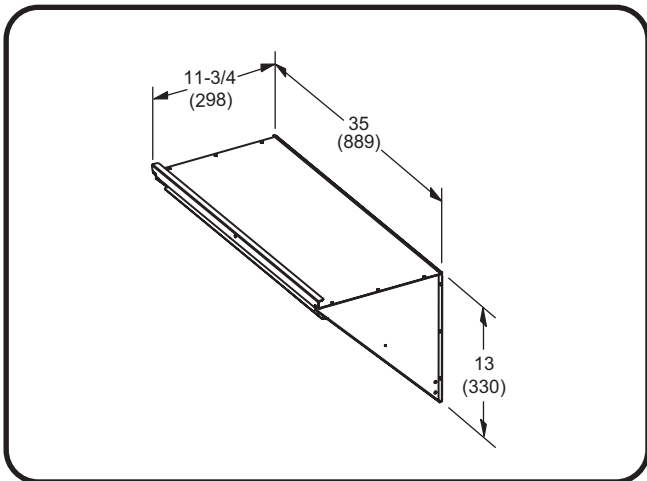
**BACK VIEW**

**DIMENSIONS - ACCESSORIES - INCHES (MM)**

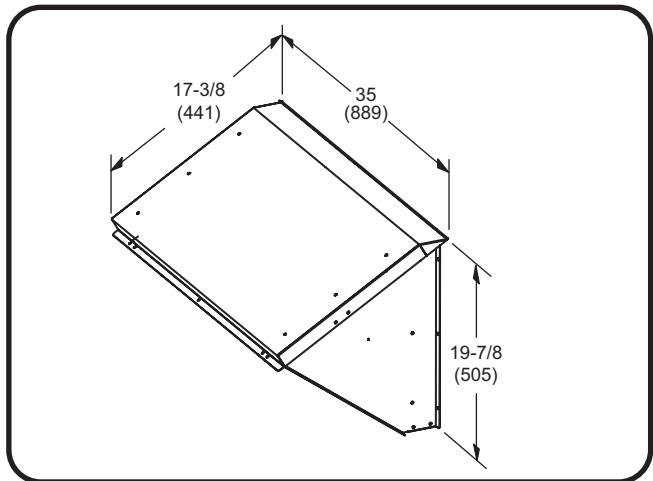
**OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS  
(Downflow Applications)**



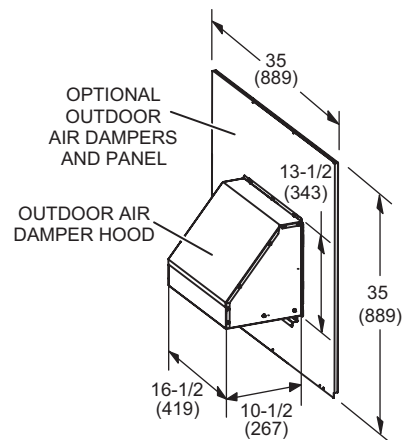
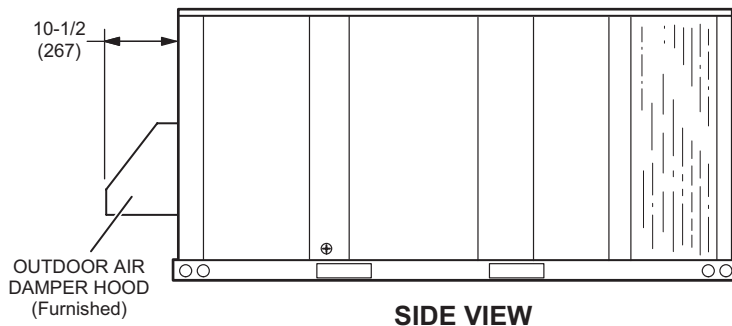
**OUTDOOR AIR HOOD FOR ECONOMIZER  
(Furnished)**



**BAROMETRIC RELIEF HOOD FOR ECONOMIZER  
(Furnished)**

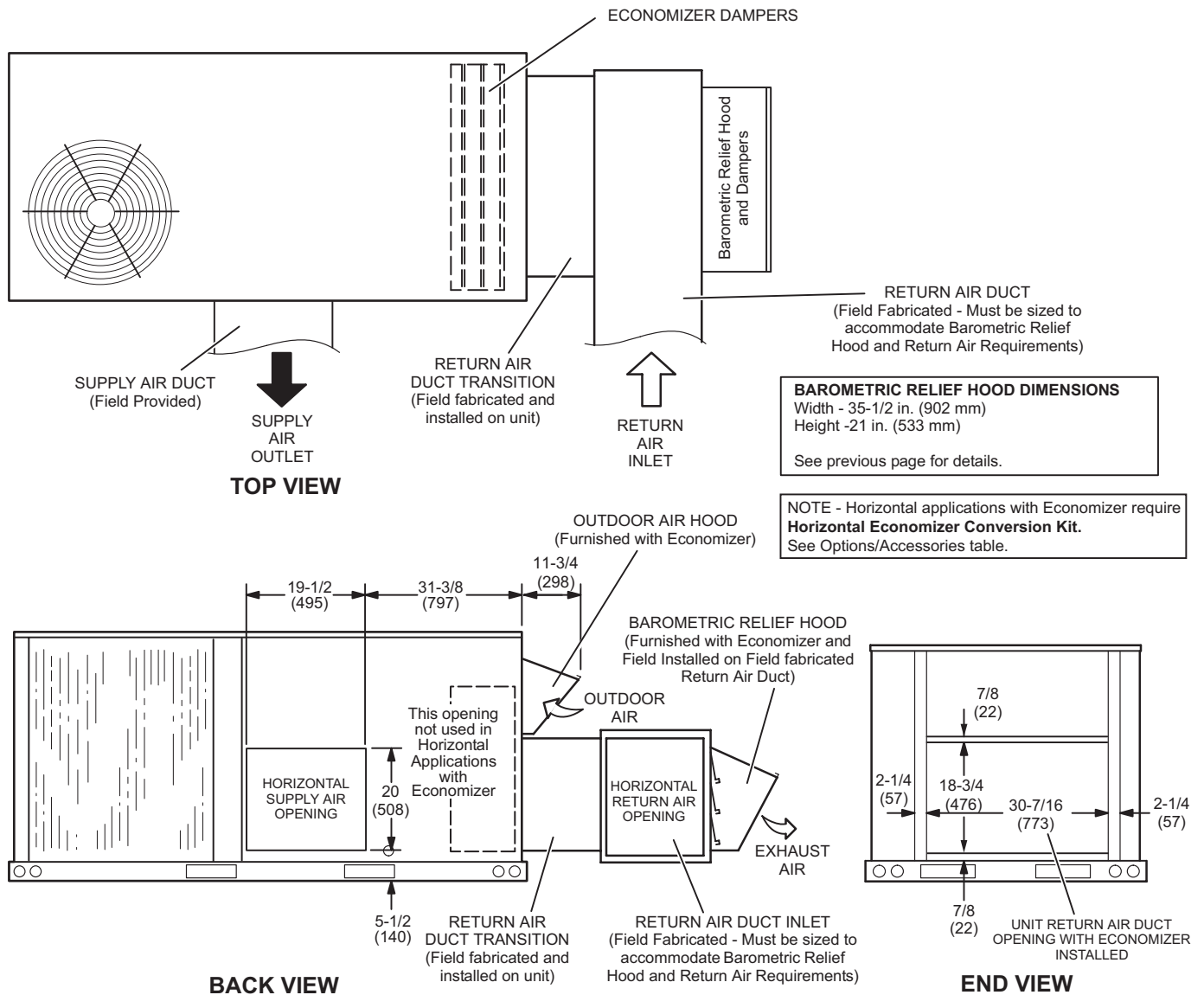


**OUTDOOR AIR DAMPER HOOD DETAIL FOR OPTIONAL MANUAL OR MOTORIZED OUTDOOR AIR DAMPERS  
(Downflow or Horizontal Applications)**



## DIMENSIONS - ACCESSORIES - INCHES (MM)

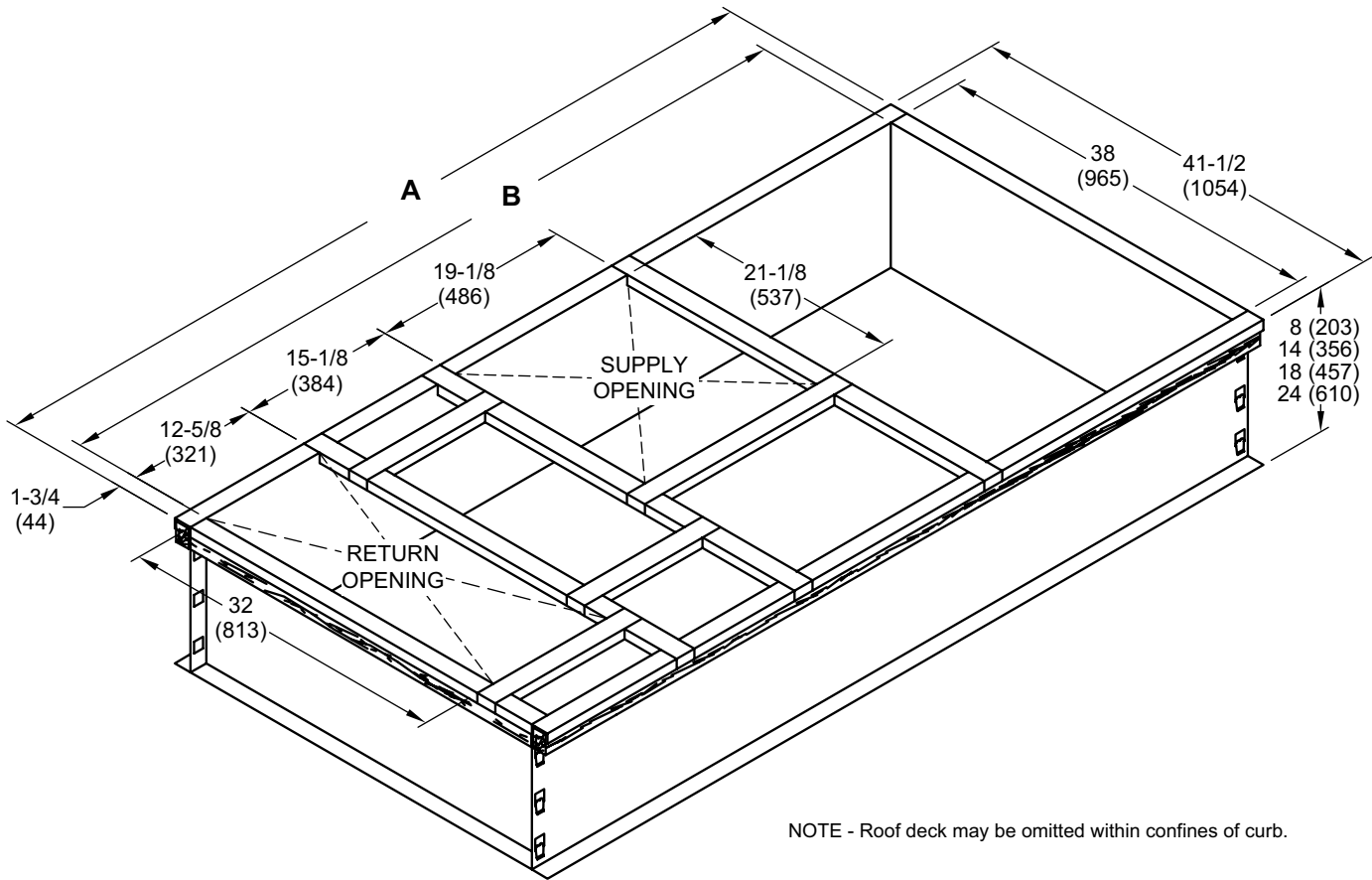
### OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Horizontal Applications)



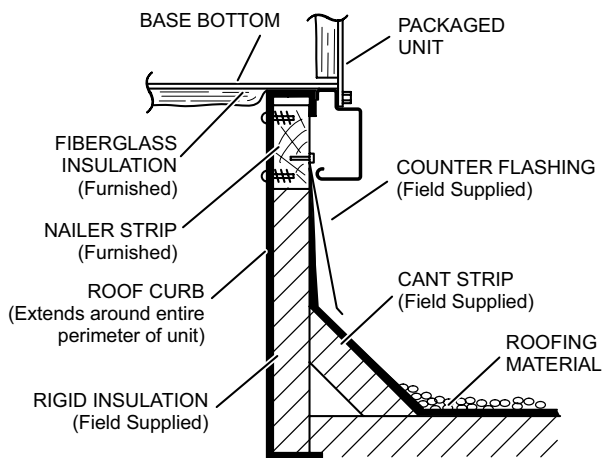
**NOTE - Return Air Duct and Transition must be supported.**

## DIMENSIONS - ACCESSORIES - INCHES (MM)

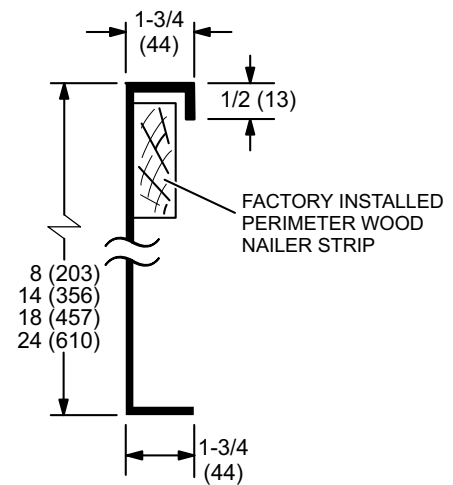
### HYBRID ROOF CURBS - DOUBLE DUCT OPENING - STANDARD AND FULL PERIMETER



#### TYPICAL FLASHING DETAIL FOR ROOF CURB



#### DETAIL ROOF CURB

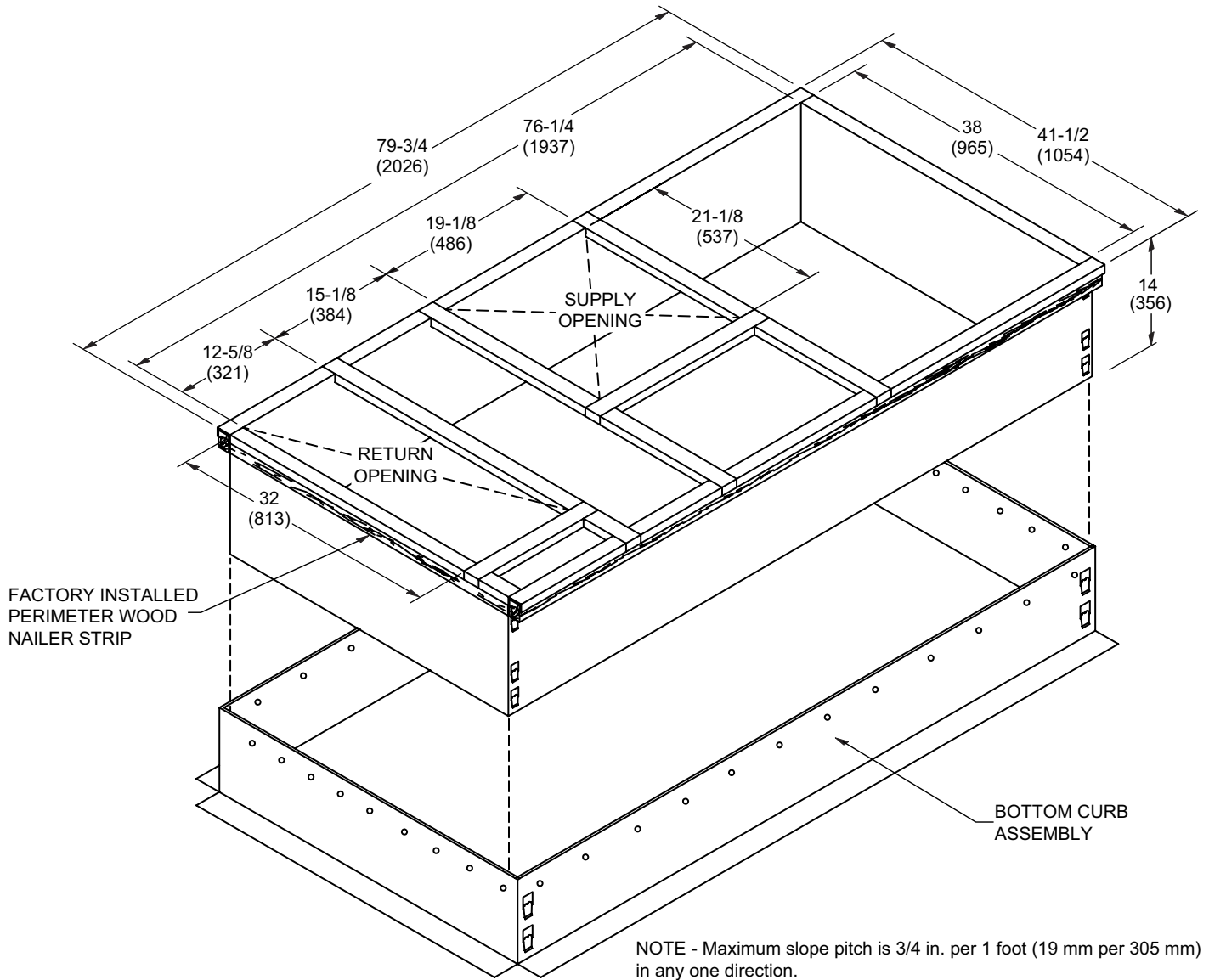


Model No.	A		B	
	in.	mm	in.	mm
Standard - 024, 030, 036, 048, 060, 072, 074, <sup>1</sup> 090	79-3/4	2026	76-1/4	1937
Full Perimeter - 090	92-3/4	2356	89-1/4	2267

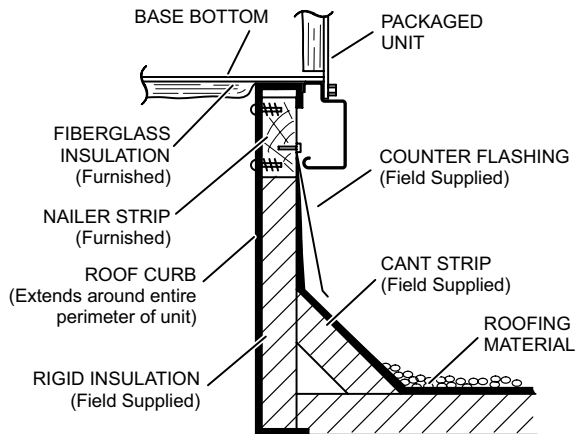
<sup>1</sup> 090 models can be used on smaller 79-3/4 in. (2026 mm) roof curbs (not full perimeter) with 15-3/4 in. (400 mm) overhang at condenser end of unit. See dimension drawing on page 60

**DIMENSIONS - ACCESSORIES - INCHES (MM)**

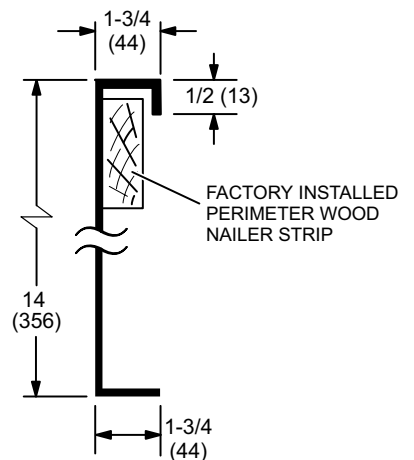
**ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING**



**TYPICAL FLASHING DETAIL FOR ROOF CURB**

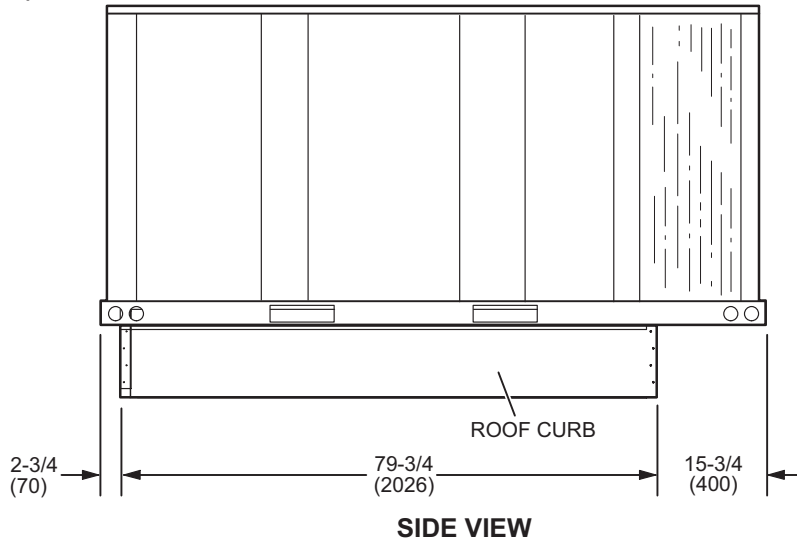


**DETAIL ROOF CURB**

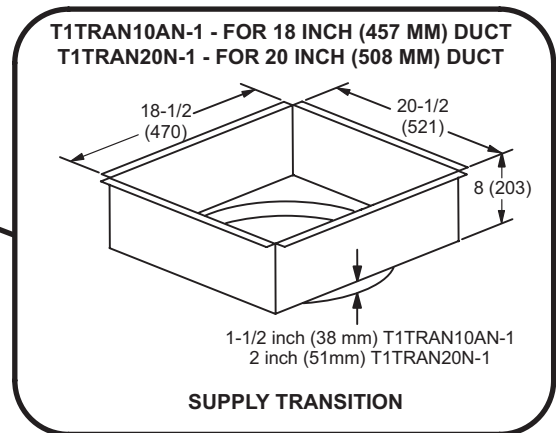
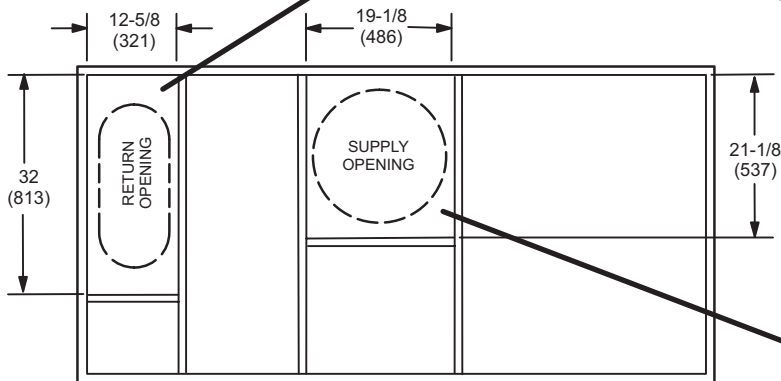
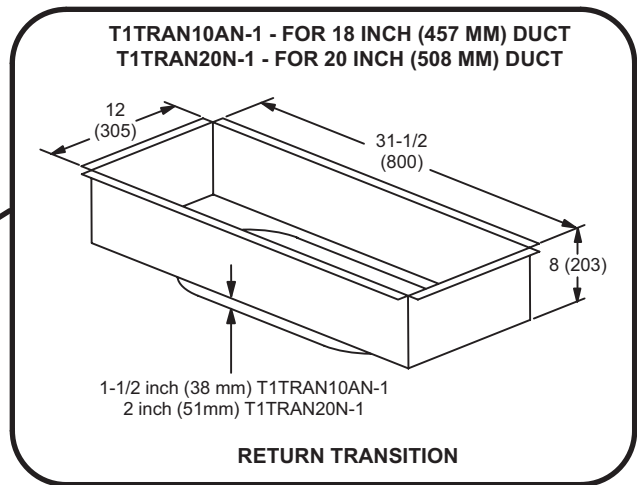


**DIMENSIONS - ACCESSORIES - INCHES (MM)**

**090 MODELS - SHOWING OVERHANG ON SMALLER 79-3/4 INCH LENGTH ROOF CURBS  
(Not Full Perimeter)**



**TRANSITIONS**

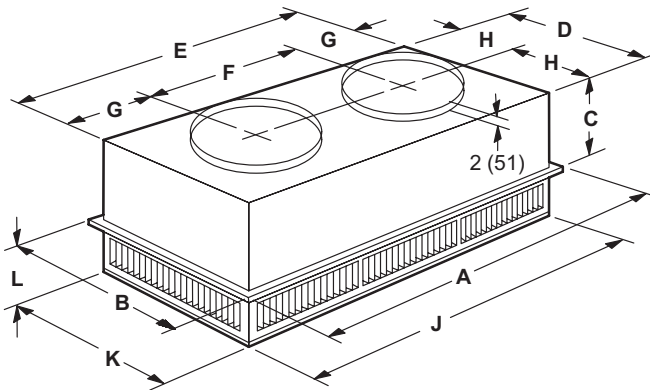




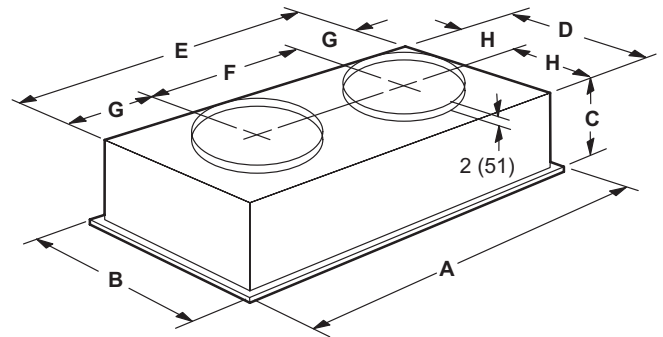
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER



#### FLUSH CEILING DIFFUSER



Model Number		RTD9-65	RTD11-95
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	11-3/8	14-3/8
	mm	289	365
D	in.	21-1/2	27-1/2
	mm	546	699
E	in.	45-1/2	45-1/2
	mm	1156	1158
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/2	11-1/2
	mm	292	292
H	in.	10-3/4	13-3/4
	mm	273	349
J	in.	45-1/2	45-1/2
	mm	1156	1156
K	in.	21-1/2	27-1/2
	mm	546	699
L	in.	7-1/8	8-1/8
	mm	181	206
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

Model Number		FD9-65	FD11-95
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	13-1/2	16-5/8
	mm	343	422
D	in.	21	27
	mm	533	686
E	in.	45	45
	mm	1143	1143
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/4	11-1/4
	mm	286	286
H	in.	10-1/2	13-1/2
	mm	267	343
Duct Size	in.	18 round	20 round
	mm	457 round	508 round





## REVISIONS

Section	Description
New Product	Added Specifications, Rating and Dimensions for 072H High Efficiency model and 074 Standard and High Efficiency models.
Optional Accessories	New catalog numbers for Standard and High Performance Economizers. Changed catalog numbers for LPG kits.



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